

CORNELL UNIVERSITY
ANNOUNCEMENTS

AUGUST 21, 1964

MEDICAL COLLEGE
1964—1965

CORNELL UNIVERSITY ANNOUNCEMENTS

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CORNELL UNIVERSITY

THE MEDICAL COLLEGE

1964-1965

1300 York Avenue
New York, New York 10021
Telephone: Trafalgar 9-9000

1964

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CALENDAR

1964

June 22	Registration; instruction begins for fourth year, first division
July 3 & 4	Independence Day, holidays
August 15	Second division begins for fourth year
September 7	Labor Day, holiday
September 10 & 11	Examinations for conditioned students
September 11 & 14	Registration for first, second, and third years
September 14	Opening Exercises, 3:30 P.M.
September 15	Instruction begins for first, second, and third years
October 8	Third division begins for fourth year
October 12	Columbus Day, holiday
November 3	Election Day, holiday
November 26	Thanksgiving Day, holiday
December 1	End of fall term for first and second years
December 2-8	Examinations for first and second years
December 3	Fourth division begins for fourth year
December 5	End of fall term for third year, 1 P.M.
December 7	Beginning of winter term for third year
December 9	Beginning of winter term for first and second years
December 19	Instruction ends, 1 P.M., Christmas recess begins
December 25	Christmas Day, holiday

1965

January 1	New Year's Day, holiday
January 4	Christmas recess ends, instruction begins
February 8	Fifth division begins for fourth year
February 22	Washington's Birthday, holiday
March 6	Winter term ends, 1 P.M.
March 7-14	Spring recess for third and fourth years
March 8-13	Examinations, first and second years
March 14-21	Spring recess for second year
March 15	Spring term begins for first and third years
March 22	Spring term begins for second year
April 8	Sixth division begins for fourth year
April 11-18	Spring recess for first year
May 28	Instruction ends for third and fourth years
May 30 & 31	Memorial Day, holidays
May 31-June 3	Examinations for fourth year
June 1-5	Examinations for third year
June 4	Instruction ends for first and second years
June 7 & 8	Examinations for first and second years
June 9	Commencement, 3 P.M.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

THE CENTER was formed by an agreement between the Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of three governors of the Society of the New York Hospital, three representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The Director of the New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

JOSEPH C. HINSEY, *Director*,
The New York Hospital-Cornell Medical Center

FREDERICK K. TRASK, JR.
ARTHUR H. DEAN
JAMES A. PERKINS

STANTON GRIFFIS
HAMILTON HADLEY
FRANCIS KERNAN

FORM OF BEQUESTS

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$. for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

If for the Hospital, the language may be: "I give and bequeath to the Society of the New York Hospital, the sum of \$."

If for the Center, the language may be: "I give and bequeath to the New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$."

THE COLLEGE COUNCIL

For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.



*New York Hospital—
Cornell Medical Center*

OFFICERS OF ADMINISTRATION

JAMES A. PERKINS, *President of the University*
JOHN E. DEITRICK, *Dean of the Medical College*
LAWRENCE W. HANLON, *Associate Dean*
RICHARD H. SAUNDERS, JR., *Associate Dean*
EDWARD K. TAYLOR, *Assistant Treasurer and Business Manager*
WILLIAM C. COPPERSMITH, *Director of Development*

EXECUTIVE FACULTY

JAMES A. PERKINS
JOHN E. DEITRICK
R. GORDON DOUGLAS
VINCENT DU VIGNEAUD
JOHN A. EVANS
FRANK GLENN
JOSEPH C. HINSEY
JOHN G. KIDD

WILLIAM T. LHAMON
E. HUGH LUGKEY
WALLACE W. MCCRORY
WALSH McDERMOTT
ROBERT F. PITTS
WALTER F. RIKER, JR.
WILLIAM F. SCHFRER
ROY C. SWAN

LAWRENCE W. HANLON, *Secretary*

STANDING COMMITTEES *

Admissions

LAWRENCE W. HANLON, *Chairman*
J. ROBERT BUCHANAN
RICHARD C. KARL
JAMES R. MCCARROLL
THOMAS H. MEIKLE, JR.
RICHARD H. SAUNDERS, JR.
ALPHONSE E. TIMPANELLI

Animal Care

RICHARD H. SAUNDERS, JR., *Chairman*
E. LOVELL BECKER
PETER M. BURKHOLDER
WILLIAM D. CASH
FLOYD M. FELDMANN
JULIUS GOLUBOW
SIDNEY E. GROSSBERG
WILBUR D. HAGAMEN
MORDECAI HALPERN
GRAHAM H. JEFFRIES
RICHARD C. KARL
RICHARD H. KESSLER
HAROLD A. KOEHLER
ROBERT LANDESMAN
THOMAS J. LUPARELLO
JAY ROBERTS
BJORN THORBJARNARSON

* The Dean is ex officio a member of all committees.

Curriculum

JOHN Y. SUGG, *Chairman*

BARBARA ASHE
 DANA C. BROOKS
 ERIC T. CARLSON
 WILLIAM D. CASH
 HAROLD HEMPLING
 DONALD G. JOHNSON
 EDWIN D. KILBOURNE
 WALTER MODEL
 ZUHEIR MUJAHED
 GEORGE G. READER
 GOETZ W. RICHTER
 LAWRENCE W. HANLON, *ex officio*
 JOHN E. DEITRICK, *ex officio*

Library

ROGER L. GREIF, *Chairman*

THOMAS P. ALMY
 GÖRAN BAUER
 GEORGE B. BROWN
 HARRY W. BURNETT
 ERIC T. CARLSON
 LAWRENCE W. HANLON
 VERONICA LYONS
 JOHN MACLEOD
 VICTOR F. MARSHALL
 JULIAN R. RACHELE
 PAULINE M. VAILLANCOURT

Prizes in Research

ROBERT F. WATSON, *Chairman*

DANA C. BROOKS
 THOMAS KILLIP III
 GEORGE E. MURPHY
 RICHARD H. SAUNDERS, JR.

Promotion and Graduation

JOHN E. DEITRICK, *Chairman*

Heads of departments, or their representatives, responsible for the more important courses of each year.

Research Society

EDWIN D. KILBOURNE, *Chairman*

WILLIAM D. CASH
 WILBUR D. HAGAMEN
 EDWARD W. HOOK, JR.
 DANIEL S. LUKAS
 RICHARD H. SAUNDERS, JR.
 FRANK G. STANDAERT

Scholarships

WALTER F. RIKER, *Chairman*

RICHARD N. KOHL
 JOHN M. McLEAN
 FRED PLUM
 JULIAN R. RACHELE
 RICHARD H. SAUNDERS, JR.

FACULTY*

JAMES A. PERKINS, A.B., Ph.D., *President of the University.*

EMERITUS PROFESSORS

ARTHUR F. ANDERSON, M.D. [1930; 1962]	<i>Clinical Professor of Pediatrics</i>
DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
McKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
RUSSELL L. CECIL, M.D. [1916; 1950]	<i>Clinical Professor of Medicine</i>
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CARY EGGLESTON, M.D. [1911; 1953]	<i>Clinical Professor of Medicine</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and Gynecology</i>
HELEN HARRINGTON, M.D. [1933; 1959]	<i>Clinical Professor of Pediatrics</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
GEORGE M. LEWIS, M.D. [1932; 1964]	<i>Clinical Professor of Medicine (Dermatology)</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
ADE T. MILHORAT, M.D. [1933; 1964]	<i>Clinical Professor of Medicine</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JAMES M. NEILL, M.D. [1931; 1962]	<i>Professor of Microbiology and Immunology</i>
CHARLES T. OLCOTT, M.D. [1926; 1958]	<i>Professor of Pathology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
CARL H. SMITH, M.D. [1928; 1964]	<i>Clinical Professor of Pediatrics</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery (Urology)</i>
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine (Neurology)</i>
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
PHILIP D. WILSON, M.D. [1951; 1955]	<i>Clinical Professor of Surgery (Orthopedics)</i>

PROFESSORS

- THOMAS P. ALMY, *Professor of Medicine.* Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital; Director and Visiting Physician, Second Medical Division, Bellevue Hospital. A.B. 1935, M.D. 1939, Cornell. [1940; 1957]
- JOSEPH F. ARTUSIO, JR., *Professor of Anesthesiology in Surgery; Professor of Anesthesiology in Obstetrics and Gynecology.* Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
- GORAN C. H. BAUER, *Professor of Surgery (Orthopedics).* Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, Karolinska Institute, Sweden. [1963]
- LEONA BAUMGARTNER, *Clinical Professor of Public Health; Clinical Associate Professor of Pediatrics.* Associate Attending Pediatrician, New York Hospital. A.B. 1923, M.A. 1925, Kansas; Ph.D. 1932, M.D. 1934, Yale. [1935; 1958]

* The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

- ALEXANDER BRUNSCHWIG, *Clinical Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.A. 1923, M.S. 1924, University of Chicago; M.D. 1926, Rush. [1947]
- JOSEPH H. BURCHENAL, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
- ANTHONY C. CIPOLLARO, *Clinical Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1924, Dartmouth; M.D. 1927, Columbia. [1948; 1960]
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital; Visiting Surgeon (Plastic Surgery), Bellevue Hospital. M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955]
- JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957]
- EDWARD H. DENNEN, *Clinical Professor of Obstetrics and Gynecology*. Consultant in Obstetrics and Gynecology, New York Hospital. M.D. 1919, Tufts. [1933; 1958]
- R. GORDON DOUGLAS, *Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D.C.M. 1924, McGill. [1932; 1949]
- HENRY S. DUNNING, *Clinical Professor of Neurology in Medicine*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, Westchester Division. A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
- VINCENT DU VIGNEAUD, *Professor of Biochemistry (Chairman)*. B.S. 1923, M.S. 1924, Illinois; Ph.D. 1927, Rochester; Sc.D. 1955, New York University, Yale. [1938]
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- CLAUDE E. FORKNER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1922, M.A. 1923, California; M.D. 1926, Harvard. [1938; 1953]
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957]
- FRITZ F. FUCHS, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962]
- FRANK GLENN, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. M.D. 1927, Washington University. [1932; 1947]
- HARRY GOLD, *Clinical Professor of Pharmacology*. A.B. 1919, M.D. 1922, Cornell. [1922; 1947]
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- JOHN R. HELLER, *Clinical Professor of Public Health*. President, Memorial Sloan-Kettering Cancer Center. B.S. 1925, Clemson; M.D. 1929, Emory. [1962]
- JOSEPH C. HINSEY, *Professor of Neuroanatomy*. Director, New York Hospital-Cornell Medical Center. B.S. 1922, M.S. 1923, Northwestern; Ph.D. 1927, Washington University; Sc.D. 1951, Northwestern. [1936; 1956]
- ELLIOT HOCHSTEIN, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1964]
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital; Director and Visiting Surgeon, Second Surgical Division, Bellevue Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- EDWARD W. HOOK, JR., *Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1943, Wofford College; M.D. 1949, Emory University. [1959; 1964]
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute, and Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Sciences. B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960]
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957]
- JOHN G. KIDD, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. A.B. 1942, M.D. 1944, Cornell. [1955; 1961]

- MILTON L. KRAMER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1926, M.D. 1929, Columbia. [1935; 1960]
- ALEXANDER H. LEIGHTON, *Professor of Psychiatry (Social Psychiatry)*. Attending Psychiatrist, New York Hospital. A.B. 1923, Princeton; M.A. 1934, Cambridge; M.D. 1936, Johns Hopkins. [1947; 1957]
- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- WILLIAM T. LHAMON, *Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- E. HUGH LUCKEY, *Professor of Medicine (Chairman)*. Physician-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1957]
- VICTOR F. MARSHALL, *Clinical Professor of Surgery (Urology)*. Attending Surgeon in Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]
- WALLACE W. McCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]
- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- CHARLES M. McLANE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Radiologist (Obstetrics and Gynecology), New York Hospital. A.B. 1924, M.D. 1928, Johns Hopkins. [1932; 1962]
- JOHN M. McLEAN, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon in Charge of Ophthalmology, New York Hospital; Consulting Ophthalmologist, Memorial Hospital. M.E. 1930, Stevens Institute; M.D. 1934, Cornell. [1941; 1943]
- ROBERT C. MELLORS, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- JAMES A. MOORE, *Clinical Professor of Surgery (Otolaryngology)*. Attending Surgeon in Charge of Otolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- S. W. MOORE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956]
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- JOSEPH N. NATHANSON, *Clinical Professor of Obstetrics and Gynecology*. Consultant in Obstetrics and Gynecology, New York Hospital. M.D.C.M. 1919, McGill. [1926; 1958]
- JAMES J. NICKSON, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. B.S. 1936, University of Washington; M.D. 1940, Johns Hopkins. [1949; 1951]
- STEN-ERIK OLSSON, *Visiting Professor of Comparative Orthopedics in Surgery*. D.V.M. 1947, D.Vet.Sci. 1951, Royal Veterinary College, Stockholm; M.D. 1962, Karolinska Institute, Stockholm. [1964]
- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
- ROBERT F. PITTS, *Professor of Physiology (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- FRED PLUM, *Anne Parrish Titzell Professor of Neurology in Medicine*. Neurologist-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- HENRY T. RANDALL, *Professor of Surgery*. Clinical Director and Chairman, Department of Surgery, Memorial Hospital. A.B. 1937, Princeton; M.D. 1941, Med.Sc.D. 1950, Columbia. [1950; 1951]
- RULON W. RAWSON, *Professor of Medicine*. Attending Physician and Chairman, Department of Medicine, Memorial Hospital; Visiting Physician, Bellevue Hospital. M.B. 1937, M.D. 1938, Northwestern. [1948; 1951]
- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital; Visiting Surgeon in Charge of Neurosurgery, Bellevue Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]

- GEORGE G. READER, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- WILLIAM F. SCHERER, *Professor of Microbiology (Chairman)*. M.D. 1947, University of Rochester. [1962]
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958]
- FRANK R. SMITH, *Clinical Professor of Obstetrics and Gynecology*. Consultant in Obstetrics and Gynecology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. A.B. 1917, Yale; M.D. 1921, Harvard. [1932; 1958]
- MARVIN STEIN, *Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. B.S. 1945, M.D. 1949, Washington University. [1963]
- LEE R. STRAUB, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill. [1951; 1962]
- JOHN Y. SUGG, *Professor of Microbiology*. A.B. 1926, M.S. 1928, Ph.D. 1931, Vanderbilt. [1932; 1964]
- ROY C. SWAN, *Professor of Anatomy (Chairman)*. A.B. 1941, M.D. 1947, Cornell. [1948; 1959]
- HAROLD L. TEMPLE, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- DAVID D. THOMPSON, *Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- T. CAMPBELL THOMPSON, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery; Consulting Orthopedic Surgeon, Memorial Hospital. A.B. 1924, Rollins; M.D. 1928, Johns Hopkins; M.Sc.D. 1936, Columbia. [1951; 1955]
- PRESTON A. WADE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1922, M.D. 1925, Cornell. [1927; 1953]
- JAMES H. WALL, *Clinical Professor of Psychiatry*. Medical Director, New York Hospital, Westchester Division. M.D. 1927, Jefferson. [1933; 1958]
- ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1934, Virginia. [1946; 1960]
- IRVING S. WRIGHT, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1923, M.D. 1926, Cornell. [1946; 1949]

ASSOCIATE PROFESSORS

- FRED H. ALLEN, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
- LARS ANDREN, *Visiting Associate Professor of Radiology*. M.D. 1936, University of Lund. [1963]
- WILLIAM A. BARNES, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1946]
- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1949, Johns Hopkins. [1953; 1962]
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
- E. LOVELL BECKER, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1962]
- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics; Clinical Assistant Professor of Public Health*. Assistant Attending Pediatrician, New York Hospital. A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961]
- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
- ARTHUR WHITLEY BRANWOOD, *Associate Professor of Pathology*. Attending Pathologist, New York Hospital. M.B. Ch.B. 1942, M.D. 1948, University of Edinburgh. [1963]

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- HARRY W. BURNETT, JR., *Associate Professor of Radiology*. Attending Radiologist, New York Hospital. A.B. 1940, Miami University; M.D. 1943, Northwestern. [1948; 1953]
- CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962]
- ERIC T. CARLSON, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1962]
- HENRY A. CARR, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
- GEORGE O. CLIFFORD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. M.D. 1949, Tufts. [1963]
- EUGENE E. CLIFFTON, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Assistant Attending Surgeon, Memorial Hospital; Associate Visiting Surgeon, Bellevue Hospital. B.S. 1933, Lafayette College; M.D. 1937, Yale. [1938; 1955]
- JOHN R. COBB, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, Brown; M.D. 1930, Yale; Med.Sc.D. 1936, Columbia. [1951; 1957]
- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- WILLIAM COOPER, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1959]
- WILLIAM A. COOPER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1928, Stanford University; M.D. 1932, Cornell. [1934; 1946]
- FRANK E. CORMIA, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1926, M.D. 1930, Vermont. [1947; 1956]
- GUIDO CURRARINO, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. M.D. 1945, University of Genoa. [1961]
- FARRINGTON DANIELS, *Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962]
- MARGARET DANN, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1923, Oberlin; M.S. 1925, Illinois; Ph.D. 1932, Cornell; M.D. 1937, Yale [1938; 1956]
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962]
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- PAUL F. DE GARA, *Clinical Associate Professor of Pediatrics (Allergy); Clinical Assistant Professor of Medicine (Allergy)*. Associate Attending Pediatrician; Assistant Attending Physician, New York Hospital. M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1963]
- THOMAS F. DILLON, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1947, Georgetown University. [1952; 1962]
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
- JOHN W. DOUGHERTY, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- JOHN W. DRAPER, *Clinical Associate Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital; Visiting Surgeon in Charge of Urological Service, Bellevue Hospital. A.B. 1927, Dartmouth; M.D. 1931, Cornell. [1932; 1949]
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- EDWARD A. DUNLAP III, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1945; 1960]

- MURRAY DWORETZKY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1961]
- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon in Charge (Dentistry), New York Hospital. D.M.D. 1931, Harvard. [1933; 1953]
- MARY ALLEN ENGLE, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1959]
- RALPH L. ENGLE, JR., *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1942, University of Florida; M.D. 1945, John Hopkins. [1949; 1957]
- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961]
- MARION E. ERLANDSON, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1946, Oberlin College; M.D. 1950, Western Reserve. [1955; 1961]
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- AARON FEDER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. M.D. 1938, Maryland. [1941; 1959]
- FREDERIC F. FLACH, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peter's; M.D. 1951, Cornell. [1954; 1962]
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- JOSEPH G. FORTNER, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]
- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- EDGAR L. FRAZEL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- WILLIAM GELLER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- RANDOLPH GEPFERT, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1929, Georgia. [1941; 1956]
- JAMES L. GERMAN III, *Associate Professor of Medicine; Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1945, Louisiana Polytechnic Institute, M.D. 1949, Southwestern. [1963]
- GERHARD GIEBISCH, *Associate Professor of Physiology*. M.D. 1951, University of Vienna. [1954; 1960]
- HELENA GILDER, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Surgery*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960]
- OSCAR GLASSMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1923, Utah; M.D. 1925, New York University. [1932; 1958]
- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960]
- DAN M. GORDON, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1929, M.D. 1932, Michigan. [1944; 1948]
- ARTHUR V. GREELEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1925, Yale; M.D. 1929, Johns Hopkins. [1932; 1957]
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Phy-

- sician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1925, M.D. 1928, Cornell. [1934; 1959]
- ROGER L. GREIF, *Associate Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1955]
- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- LAWRENCE W. HANLON, *Associate Dean*. A.B. 1935, M.D. 1938, Cornell. [1946; 1955]
- GRAHAM G. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962]
- ULRICH K. HENSCKE, *Clinical Associate Professor of Radiology*. Associate Attending Radiation Therapist, Memorial Hospital. Ph.D. 1937, M.D. 1939, University of Berlin. [1956]
- LAWRENCE E. HINKLE, JR., *Associate Professor of Medicine; Clinical Associate Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956]
- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- MELVIN HORWITZ, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- WILLIAM S. HOWLAND, *Associate Professor of Anesthesiology in Surgery*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954]
- GRAHAM H. JEFFRIES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.B., Ch.B. 1953, University of New Zealand; Ph.D. 1955, Oxford; M.R.C.P. 1957, London. [1964]
- DONALD G. JOHNSON, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1957]
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949]
- WILLIAM H. KAMMERER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. B.S. 1931, M.D. 1935, Indiana. [1941; 1961]
- RICHARD C. KARL, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Surgeon-in-Charge, Bellevue Hospital. A.B. 1942, Columbia; M.D. 1944, Cornell. [1946; 1963]
- DAVID A. KARNOFSKY, *Associate Professor of Medicine*. Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1952]
- GEORGE L. KAUER, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958]
- B. H. KEAN, *Clinical Associate Professor of Medicine (Tropical Medicine)*. Associate Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1956]
- AARON KELLNER, *Clinical Associate Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1934, Yeshiva University; M.S. 1935, Columbia; M.D. 1939, University of Chicago. [1946; 1953]
- THOMAS KILLIP III, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1964]
- FREDERIC T. KIRKHAM, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
- GERALD H. KLINGON, *Clinical Associate Professor of Neurology in Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1942, Columbia; M.D. 1945, Cornell. [1953; 1962]
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959]
- LEONARD KORNGOLD, *Associate Professor of Microbiology in Surgery (Orthopedics)*. B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962]
- ELMER E. KRAMER, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1957]
- JOHN S. LADUE, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New

- York Hospital; Associate Attending Physician, Memorial Hospital. B.S. 1932, M.S. 1940, Ph.D. 1941, Minnesota; M.D. 1936, Harvard. [1948; 1957]
- ERNEST W. LAMPE, *Clinical Associate Professor of Surgery; Associate Professor of Anatomy*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. B.S. 1920, Minnesota; M.D. 1923, Rush. [1941; 1963]
- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958]
- WALTER LAWRENCE, JR., *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. Ph.B. 1944, B.S. 1945, M.D. 1948, University of Chicago. [1957; 1963]
- DOROTHEA C. LEIGHTON, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. A.B. 1930, Bryn Mawr; M.D. 1936, Johns Hopkins. [1957; 1958]
- MILTON I. LEVINE, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1954]
- CHARLES S. LIEBER, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1955, University of Brussels. [1963]
- FREDERICK L. LIEBOLT, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, I.L.D. 1948, Arkansas; M.D. 1930, Washington University; Sc.D., 1937, Columbia. [1939; 1946]
- ROBERT M. LINTZ, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. A.B. 1924, M.D. 1927, Cornell. [1932; 1961]
- MACK LIPKIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1953; 1964]
- MARTIN LIPKIN, *Associate Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1946, M.D. 1950, New York University. [1955; 1963]
- DONALD B. LOURIA, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1949, M.D. 1953, Harvard. [1954; 1964]
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1944, M.D. 1947, Columbia. [1948; 1957]
- JOHN MACLEOD, *Associate Professor of Anatomy*. A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1949]
- EDWARD C. MANN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1946, M.D. 1950, Tulane. [1954; 1962]
- BENJAMIN E. MARBURY, *Clinical Associate Professor of Anesthesiology in Surgery; Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1957]
- JAMES R. MCCARROLL, *Associate Professor of Public Health*. Assistant Attending Physician, New York Hospital. A.B. 1942, Colby College; M.D. 1946, Cornell. [1954; 1963]
- ELLEN McDEVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1930, Mississippi State College for Women; M.D. 1949, Utah. [1951; 1963]
- FLETCHER H. McDOWELL, *Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944, Dartmouth; M.D. 1947, Cornell. [1952; 1961]
- JOHN H. MCGOVERN, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1964]
- GORDON P. MCNEER, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D. 1931, Pennsylvania. [1950; 1960]
- ROBERT H. MELCHIONNA, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1929, St. John's University; M.D. 1925, St. Louis University. [1939; 1964]
- WALTER MODELL, *Associate Professor of Pharmacology*. Associate Visiting Physician, Bellevue Hospital. B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1954]
- GEORGE E. MURPHY, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1954]

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- M. LOIS MURPHY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1960]
- W. P. LAIRD MYERS, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1959]
- WILLIAM F. NICKEL, JR., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950]
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- MAURICE SHILS, *Assistant Professor of Medicine*. B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962]
- RICHARD SILVER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1950, M.D. 1953, Cornell. [1956; 1962]
- PAUL A. SKUDDER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1949, Middlebury; M.D. 1953, Cornell. [1960]
- E. FLETCHER SMITH, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.A. 1924, M.D. 1928, Texas. [1943; 1963]
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic Surgeon)*. Assistant Attending Plastic Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958]
- RUTH E. SNYDER, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]
- STUART S. SNYDER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- REUVEN K. SNYDERMAN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. A.B. 1943, M.D. 1946, University of Pennsylvania. [1961]
- I. LAWRENCE S. SONKIN, *Clinical Assistant Professor of Medicine*. B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1950; 1962]
- AARON D. SPIELMAN, *Clinical Assistant Professor of Medicine (Allergy)*. Assistant Attending Physician, New York Hospital. A.B. 1922, Johns Hopkins; M.D. 1926, Columbia. [1935; 1963]
- NORTON SPRITZ, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Visiting Physician, Bellevue Hospital. A.B. 1948, M.D. 1952, Johns Hopkins. [1956; 1960]
- WILLARD H. SQUIRES, *Clinical Assistant Professor of Medicine*. Attending Physician, Hospital for Special Surgery. A.B. 1922, University of Utah; M.D. 1924, Bellevue Hospital Medical College. [1961]
- EDWARD STANTON, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.S. 1926, Maine; M.D. 1935, Cornell. [1953; 1961]
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955]

- HERMAN STEINBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1960]
- GERTRUDE S. STERN, *Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1945, Brooklyn College; M.D. 1949, Long Island College of Medicine. [1953; 1958]
- BENJAMIN D. STINSON, *Assistant Professor of Anatomy*. B.S. 1950, M.S. 1953, Oklahoma; Ph.D. 1958, Columbia. [1960; 1964]
- RICHARD W. STONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1943, M.D. 1945, Wisconsin. [1958]
- LEONARD R. STRAUB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949; 1964]
- JAMES C. STRICKLER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, Dartmouth; M.D. 1953, Cornell. [1956; 1962]
- WILLIAM D. STUBENBORD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1933; 1953]
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- DIETER H. SUSSDORF, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician. Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1941, Hsiang-Ya Medical College, Hsuanan, China. [1954; 1962]
- PETER S. TOLINS, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- RICHARD M. TORACK, *Assistant Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1948, Seton Hall; M.D. 1952, Georgetown. [1962]
- JEROME A. URBAN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.A. 1934, M.D. 1938, Columbia. [1961]
- ALAN VAN POZNAK, *Clinical Assistant Professor of Anesthesiology in Surgery; Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1961; 1962]
- FRANK J. VEITH, *Assistant Professor of Surgery*. A.B. 1952, M.D. 1955, Cornell. [1964]
- HAROLD R. WAINERDI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. A.B. 1943, Long Island University; M.D. 1947, Boston University. [1952; 1963]
- WILLIAM H. WAINWRIGHT, *Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. M.D. 1949, University of Chicago. [1954; 1959]
- LILA A. WALLIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]
- NATHANIEL WARNER, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1930, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1960]
- HENRIETTE L. WAYNE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]
- CLINTON G. WEIMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]
- AARON O. WELLS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1943, Virginia Union University; M.D. 1946, Howard. [1951; 1963]
- CHARLES A. WERNER, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.S. 1942, Chicago; M.D. 1945, Cornell. [1948; 1958]
- ELLIOT WESER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1960; 1964]
- LOUIS E. WEYMULLER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.Sc. 1923, M.D. 1925, Nebraska. [1936; 1949]
- STEPHEN WHITE, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944]
- ERIC E. WINDHAGER, *Assistant Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1963]

- MYRON WINICK, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, State University of New York, Brooklyn. [1958; 1964]
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963]
- ALEXANDER WILLIAM YOUNG, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, M.D. 1946, Maryland. [1956; 1964]
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956]

GENERAL STATEMENT

HISTORY

CORNELL UNIVERSITY Medical College was established by the Board of Trustees of Cornell University on April 14, 1898, when they elected Dr. William M. Polk Director of the College and Dean of the Medical faculty and appointed six professors. The Medical College was made possible by the munificence of Colonel Oliver H. Payne, who provided the funds for the erection of the original building, located at 28th Street and First Avenue, and who pledged his support to the new institution. For several years he provided funds for the annual support of the college and later placed the institution on a secure foundation by making generous provision for its permanent endowment by a gift of over four million dollars.

In October, 1898, instruction began in temporary quarters. As the Medical College admitted a number of students to advanced standing, Cornell University granted the degree of Doctor of Medicine for the first time in 1899.

The Cornell University Medical College from its foundation has undertaken to carry out two allied activities: the development of physicians of the best type and the extension of medical knowledge by means of research. The medical faculty has held from the beginning of its existence the attitude that these two functions are necessary as constituting a true university school. It is committed not only to conduct teaching of high order but also to study disease and the sciences underlying medicine with the purpose of adding to medical knowledge.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Cornell University Medical College and the New York Hospital have been cooperating for a long time in an arrangement for medical teaching. In September, 1932, however, the two institutions took up occupancy in the same plant.

The New York Hospital was founded by Royal Charter on June 13, 1771, in the reign of King George III, and has stood throughout the life of the nation as one of the foremost hospitals in the United States, as an institution rendering service to the sick and injured, and as a center of medical education. For a number of years the Hospital and the Medical College had been partially affiliated. In June, 1927, an agreement was entered into between Cornell University and The Society of the New York Hospital, formalizing their affiliation for the purpose of bringing together their facilities and cooperating in the care of patients, in medical education, and in medical research. In order to harmonize the interests of the Hospital and of the Medical College, the Joint Administrative Board was formed, consisting of three representatives of each institution and a seventh member elected by the appointed members. The position of Director of this organization, the New York Hospital-Cornell Medical Center, was approved in 1953.

Additional endowment was secured by each institution. A group of buildings was erected along the East River between 68th and 71st streets, adjoining the Rockefeller Institute for Medical Research. The new plant affords separate buildings for each of the various laboratory departments and includes approximately 1220 hospital beds. Provision is made for anesthesiology, medicine, surgery, obstetrics, and gynecology, pediatrics, psychiatry, and radiology in seven distinct clinical units.

The faculty of the Medical College and the professional staff of the Hospital are organized so as to form one body established on a university basis.

The new plant affords very favorable conditions for the conduct of medical education, for the pursuit of medical research, and for the care of patients in all phases of medical practice.

FACILITIES FOR INSTRUCTION

From the point of view of medical instruction, the facilities provided by the plant of the New York Hospital-Cornell Medical Center are in many respects unexcelled. The plant consists of several buildings, joined either directly or by underground passages. These provide ample accommodations for the care of hospital patients, for the teaching of the clinical branches, and for the various activities connected with the work of the preclinical departments of the Medical College.

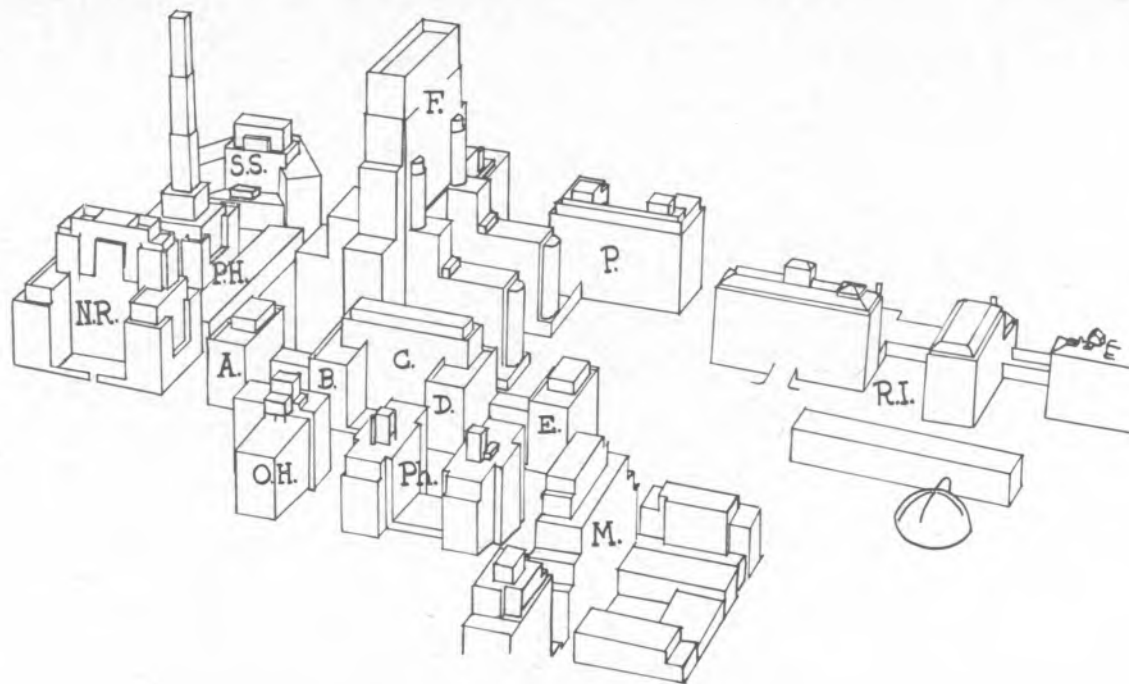
CORNELL MEDICAL COLLEGE . . . Instruction in the medical sciences is conducted in the buildings extending along York Avenue from 68th to 70th streets. The entrance to the Medical College is at the end of 69th Street in the Samuel J. Wood Library and Research Building. On the first floor of this building are the main reading room, the catalog and reference sections, and the areas for current journals of the library. The Medical College Alumni Office and the Offices of Admissions and Student Affairs are in the building (Unit C) directly behind the library. The B and D Units of the Medical College adjoin the Wood Building on its north and south sides. The upper floors of this central portion of the Medical College house the departments of microbiology, pathology, and physiology, along with the research laboratories for several of the clinical departments. The anatomy department is in the building at 70th Street (Unit A), and the building at 68th Street (Unit E) houses the departments of biochemistry and pharmacology. The A and E buildings are connected to the central buildings by two-story structures, and the central buildings are joined to the main hospital building on each of the seven floors.

The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students, are contained in the buildings along York Avenue.

NEW YORK HOSPITAL . . . Clinical instruction is given in the seven separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the woman's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provisions for bed patients, its own out-patient department, lecture rooms, and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central



NEW YORK HOSPITAL — CORNELL MEDICAL CENTER
From the West



Key to the Photograph on the Opposite Page.

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| <i>A. Anatomy.</i> | <i>N.R. Nurses' Residence.</i> |
| <i>B. Microbiology and Immunology.</i> | <i>O.H. Olin Hall.</i> |
| <i>C. Administration and Pathology.</i> | <i>P. Payne Whitney Psychiatric Clinic.</i> |
| <i>D. Physiology.</i> | <i>Ph. Phipps Houses.</i> |
| <i>E. Biochemistry and Pharmacology.</i> | <i>P.H. Power and Maintenance.</i> |
| <i>F. New York Hospital.</i> | <i>R.I. Rockefeller Institute.</i> |
| <i>M. Memorial Hospital.</i> | <i>S.S. Hospital for Special Surgery.</i> |

hospital building, with six pavilions for bed patients, three floors for its out-patient department, and extensive laboratories for chemical, physiological, and biological research. The surgical clinic occupies the pavilions from the fifth to the ninth floor, with outpatient and other facilities for the various surgical specialities. The operating rooms are on the tenth and eleventh floors. Above are six floors containing 128 rooms for private patients, while the living quarters for the resident staff are on the floors at the top of the building and in the new House Staff Residence. The entire hospital has a capacity of approximately 1220 beds.

The head of each clinic, responsible for the care of patients and the conduct of professional services of the hospital, is also professor in charge of the corresponding department of the Medical College. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the College and Hospital, while other members of these departments devote part of their time to private practice.

Other Hospitals for Clinical Instruction

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staffs who are also members of the Medical College faculty.

BELLEVUE HOSPITAL . . . Bellevue is the central hospital of the New York City Department of Hospitals. It contains 2,741 beds and is devoted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the College include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approximately 60 beds. The staff of these services are nominated by the College from among the members of its faculty and teaching staff, and the Medical College is responsible for the professional conduct of these services.

HOSPITAL FOR SPECIAL SURGERY . . . The Hospital for Special Surgery occupies its new building adjacent to the New York Hospital and is an affiliated institution within the New York Hospital-Cornell Medical Center. Professionally, the Hospital for Special Surgery is, in effect, the orthopedic service of the New York Hospital.

MEMORIAL HOSPITAL . . . Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. The agreement between the Memorial Hospital and the College requires that the professional staff be named by the Council of the Medical College subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

The Loomis Laboratory

Founded in 1886 and located at 414 East 26th Street, this institution served the purpose of undergraduate instruction in the Medical College and provided facilities for original research in the various departments of laboratory investigation. The present Medical College building contains space dedicated to the original Loomis Laboratory and its established objectives.

The Library

The reading room of the library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at the end of 69th Street. Adjoining the reading room are the sections for current journals, reference works, and medical monographs. The book stacks and carrels are on two floors below the main reading room.

The library contains about 70,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also selected collections of monographs and textbooks.

Several of the departments of the Medical College have libraries containing journals, monographs, and textbooks pertaining especially to the subject matter of the departments. These collections, inter-library loans and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the medical library.

In addition to the college library, students may obtain certain privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

The Russell Sage Institute of Pathology

The Institute has been associated with Cornell University Medical College since 1913. At first it was affiliated with the Second Medical (Cornell) Division of Bellevue Hospital, but since 1932 it has been in the New York Hospital. The Institute has supported work in metabolism which has been conducted by the members of the departments of medicine and physiology. The medical director of the Institute is Dr. E. Hugh Luckey, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

THE FACULTY of Cornell University Medical College, in defining the qualifications for admission to the medical profession, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. The college degree as a prerequisite for acceptance has been adopted by faculty and trustee action, and only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell Medical College:

1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.

The basic premedical requirements which all students must fulfill to qualify for admission to the study of medicine in New York State are set forth in the "Regulations of the Commissioner of Education." In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least 6 semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry.

Although the requirements outlined above form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. The list contains a total of twenty-seven credit points, which probably represent sufficient time to enable the student to obtain a basic preparation in these different fields. In many colleges, however, additional credits in one or more of these departments are required of the candidate in order to satisfy major requirements for the degree. In making the choice of elective courses, consideration should be given to the principle that thorough training in the sciences is essential. On the other hand, choosing too many elective courses in these departments may not provide the most acceptable preparation for medicine, since it tends to limit the time available for study in other departments offering work of a broad educational value. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Admissions Committee selects an entering class of approximately 84 students from a group of more than 1000 applicants. The members of the

committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character and soundness of personality that will enable them to finish satisfactorily their course in the Medical College. A serious obligation to society is also acknowledged by a medical school. It must graduate only those persons who can be expected, with reasonable certainty, to do creditable work in some field of medicine after graduation. The Admissions Committee selects from all applicants those who seem best to fulfill such requirements.

In selecting a relatively small class from a large group of well qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well qualified students with varied backgrounds—from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Admissions Committee looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of the state in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as fulfilling adequately the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms and inquiries regarding dates for submitting applications should be addressed to the Committee on Admissions, 1300 York Avenue, New York 21, N.Y. In making application for admission, the regular form issued for this purpose must be filled out and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. With the large number of students making application in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a certain year, the application forms may be obtained on request, beginning July 1 of the previous year. Applications should be completed during the fall, and no application will be accepted after December 15. A charge of \$10 is made for submitting an application. This fee should be made payable to Cornell University Medical College in the form of a check or money order and is *not returnable*.

Applications are passed upon by the Committee on Admissions after all creden-

tials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

It is impossible for the Committee on Admissions to hold personal conferences with all candidates for admission as the number is too great; therefore the invitations for interview are decided by the Committee. However, any student attending a college at a distance from New York is invited to write to request an interview if he is visiting the New York City area. In such cases every effort will be made to arrange personal conferences with members of the Admissions Committee.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing.

Application for a place in one of the upper classes should be filed according to the procedure described for admission to the first year class. Accepted applicants are required to make the deposit of \$50. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all of the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They must present a certificate of honorable dismissal from the medical school or schools they have attended, and they may be required to take examinations in any of the medical courses taken at another school.

Although a certain number of students are regularly admitted from other institutions to enter the third class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have finished all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching in this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances an academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next

group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the Committee on Promotion and Graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for re-admission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.

2. Students with an unsatisfactory rating in 40 per cent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in less than 40 per cent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 133 South 36th Street, Philadelphia 4, Pa.

GENERAL INFORMATION

FEES AND EXPENSES

ALL FEES for instruction and other charges are paid at the Business Office of the Medical College, Room A-131, 1300 York Avenue, New York 21, N.Y.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-115, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10.00

ACCEPTANCE DEPOSIT \$50.00

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1964:

TUITION FEE (for academic year) \$1,600.00

COMPREHENSIVE FEE (for academic year) \$ 200.00

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

Matriculation Fee

Student Hospitalization Insurance (for calendar year)

This insurance is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. This insurance plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in the New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

Student Health Service

Described below.

Graduation Fee and rental fee for cap and gown for graduation exercises,



BOOKS, INSTRUMENTS, AND MICROSCOPES

The average cost of books and instruments is approximately \$135 a year, distributed as follows: first year, \$150; second year, \$215; third year, \$125; fourth year, \$50.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. A limited number of monocular microscopes are available for rental at \$30 a year. Anyone wishing to rent one of these microscopes should write to the Admissions Office to make a reservation as early as possible.

RESIDENCE HALLS

F. W. OLIN HALL, student residence, was completed for occupancy in September, 1954. This building was made possible by a generous gift from the Olin Foundation. The residence is located at 445 East 69th Street, directly across York Avenue from the Medical College entrance. It contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room contains the George T. Delacorte, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since each two rooms have a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Rental for students is: for an academic year, \$320; for a full year (12 months), \$375; for periods less than one year, \$45 a month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

LIVINGSTON FARRAND APARTMENTS FOR MARRIED STUDENTS, a newly remodeled elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen 1½-room apartments and nineteen 3-room apartments; all apartments are furnished. Rentals for 1½ are \$75 to \$85 per month and for the 3-room apartments, \$115 to \$125 per month.

Two adjacent buildings were remodeled in 1960 for married students. The building at 425 East 69th Street provides twenty two-room apartments, with rentals ranging from \$70 to \$77 per month; all are furnished. The building at 423 East 69th Street provides a total of sixteen two-, three-, and four-room apartments; all are furnished. Rentals range from \$70 to \$77.50 per month for two-room apartments; from \$110 to \$120 per month for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

STUDENT HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first year class and students transferred to advanced standing from other colleges are required to have a physical examination by a member of the Health Service staff. In addition each student must report for a chest X-ray examination, tuber-

culin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any X-rays, laboratory tests, or procedures which may be needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of this insurance for each student is included in the comprehensive fee. Wives and families may be included by the payment of an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the student health staff. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the College Health Service is expected. Wives and families of students are not eligible for care through the Personnel Health Service but will be referred to appropriate members of the hospital staff for medical care.

FINANCIAL AID

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and on loans.

Scholarships

Scholarship money is derived from the several endowed funds and other sources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance.

AWARDS TO ENTERING STUDENTS are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the Admissions Committee when he is interviewed. An applicant who has been accepted for admission and has indicated his intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Scholarships.

1. *THE JOHN METCALFE POLK SCHOLARSHIP.* A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty.

2. *THE THORNE SHAW SCHOLARSHIP FUND* provides three scholarships designated as:

First: A scholarship of approximately \$400 available to students after at least two years of study in the Medical College.

Second: Two scholarships of approximately \$200 each available to students after at least one year of study in the Medical College.

3. *MARY F. HALL SCHOLARSHIP.* The income, amounting to about \$180

annually, from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a bona fide resident of the State of New York and was such prior to admission to the College.

4. *THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.*

A five thousand dollar fund established in 1936, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re-award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

5. *THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.*

A five thousand dollar fund established in 1939, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re-award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

6. *THE JEREMIAH S. FERGUSON SCHOLARSHIP.* Established in memory of Jeremiah S. Ferguson, who throughout his long connection with the Medical College, of somewhat more than forty years, devoted much effort to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000, the income from which is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third or fourth year classes in the Medical College who are in need of financial aid and who by conduct and scholarship have proved worthy investments.

7. *THE CHARLES RUPERT STOCKARD SCHOLARSHIP.* A ten thousand dollar fund was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-1939. The interest from this fund is to be awarded either to one or to two students who have shown promise in the work in the department of anatomy and who are desirous of doing advanced work in this department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the department of anatomy.

8. *THE DR. JOHN A. HEIM SCHOLARSHIPS.* Established under the will of John A. Heim of the class of 1905 to provide such number of scholarships in the Medical College as there shall be funds available for that purpose. The awards are to be made to regularly matriculated medical students who are in need of financial assistance, as provided for in the terms of the bequest.

First year students are eligible, provided they meet the standards prescribed.

9. *THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND.* Established in memory of their daughter, Anita Shirley Hyde. The terms of this endowment provide that the income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance.

10. *THE DR. JACQUES SAPHIER SCHOLARSHIP FUND*. Established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., USNR) of the class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in the performance of his duty. The income from this fund shall be awarded annually to a meritorious student of the Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. *THE ELISE STRANG L'ESPERANCE SCHOLARSHIP* was established by a bequest from Dr. L'Esperance to provide financial assistance for women students at Cornell Medical College.

12. *THE RUTH HOLLOHAN SCHOLARSHIP FUND* was established by the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is to be used for scholarships for students in the Medical College, with first consideration to be given to entering students of good scholarship who are in need of financial assistance.

13. *THE WALLACE D. GARRABRANDT SCHOLARSHIP*. Established by Mabel G. Gormley. This scholarship is to be awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship who is in need of financial assistance.

14. *LEONA E. TODD SCHOLARSHIP*. Under the terms of the will of Alzina T. Elliott, a scholarship has been established for women students in the Medical College.

15. *FUND FOR TRAINING IN PSYCHIATRY*. A grateful patient, recognizing the value of psychiatric therapy in helping people achieve life more abundantly, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry, and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne-Whitney Psychiatric Clinic.

16. *DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND*. Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

17. *THE LILLIAN M. CHARLES SCHOLARSHIP FUND* was established by a generous gift from Mrs. Howard W. Charles. The income will provide scholarship assistance for needy students who are in good academic standing.

18. *VIVIAN B. ALLEN SCHOLARSHIP*. Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

19. *MARY LOUISE WUESTER SCHOLARSHIP*. Established in memory of his mother by Dr. William O. Wuester. The income of this fund is awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship in need of financial aid.

20. *ROBERT E. SPENO SCHOLARSHIP*. Established in 1952 by gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and income from the endowment provides a room-rent scholarship.

21. *ELIZABETH AND NEILL HOUSTON SCHOLARSHIP*. Established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and income from the endowment provides a room-rent scholarship.

22. *DR. HARRY ENO SCHOLARSHIP ENDOWMENT*. Established in 1955 by gift of Dr. Harry Eno, the income to provide scholarships for needy and worthy students in the Medical College.

23. *THE JOSEPH P. FERRIGAN FUND*. The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

24. *THE THOMAS RENNIE SCHOLARSHIP FUND*. Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

25. *THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP*. The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

26. *THE COPPERMINES FOUNDATION SCHOLARSHIP*. Endowed by a generous gift from the Coppermines Foundation, Inc., to provide financial assistance for needy and worthy students.

27. *THE MARY E. C. CANTLE SCHOLARSHIP FUND* was established by a bequest from Mary E. C. Cantle. The income will provide scholarships for worthy students in the Medical College.

28. *THE MARY PUTNAM JACOBI—ANNA FOREST ROWE SCHOLARSHIP*. A bequest from William Vincent Rowe endowed this fund. The income will provide scholarship assistance preferably for women medical students.

29. *JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND*. This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

30. *THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND* was established by generous gifts from Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation. The income will provide scholarships for students in good academic standing who need financial aid.

31. *DR. EDWARD HOENIG SCHOLARSHIP FUND*. This scholarship was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40, in memory of their father, Dr. Edward Hoenig, '10. The income is to provide financial assistance for needy but worthy students.

32. *BARBARA V. AND WILLIAM T. HAY SCHOLARSHIP*. Funds are given annually by the officers and directors of the J. C. Kellogg Foundation as scholarship support for a student of high scholastic standing who would otherwise to be unable to receive his medical education.

33. *THE PFIZER LABORATORIES SCHOLARSHIP*, in the amount of \$1,000, is contributed annually by the Pfizer Laboratories Medical Scholarship Program. It will be awarded to a medical student who is in need of financial assistance.

34. *THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT* of \$5,000 is made annually by the Society to provide scholarships for students in need of financial aid.

35. *THE WELD FUND SCHOLARSHIP*. Established by David and Mary Blake Weld. The income will provide scholarship assistance for needy students who are in good academic standing.

36. *THE CARL J. SCHMIDLAPP MEMORIAL FUND*. Established by his daughter, Dr. Jean Schmidlapp Humes of the Class of 1949 in memory of her father, Carl J. Schmidlapp, Cornell, '08. The income from the Fund is awarded annually to a deserving student in any class of Cornell University Medical College selected by the faculty on the basis of need and ability.

37. *MAIER AND SHANTSYA HITZIG SCHOLARSHIP*. Established by Dr. William M. Hitzig of the Class of 1929 in memory of his father and mother through a gift of \$5,000. The income from this fund is to be allotted annually as a scholarship. Preference will be given to students who have done meritorious work in internal medicine.

NEW YORK STATE SCHOLARSHIPS FOR STATE RESIDENTS

SCHOLAR INCENTIVE PROGRAM . . . Applications should be filed before July 1 for each academic year, but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. *Annual* application is required.

REGENTS SCHOLARSHIPS FOR GRADUATE STUDY IN MEDICINE AND DENTISTRY . . . Applications should be filed by October of the last year of pre-professional study.

INFORMATION may be obtained by writing: Regents Examination and Scholarship Center, New York State Education Department, Albany 1, New York.

Bursary for Women Students

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing

leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

Loan Funds

1. *THE 1923 LOAN FUND.* The income from this fund is available as a loan to a student needing financial assistance.

2. *ALUMNI ASSOCIATION LOAN FUNDS.* The Alumni Association of the Medical College is able to aid a few students in meeting their expenses by the Jessie P. Andresen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

3. *STUDENT LOAN FUND.* A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Book Store is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who by reason of unforeseen circumstances get into money difficulties. A special committee considers each case on its individual merits. A student having indebtedness to the Medical College in other ways than formal loans is ineligible for graduation.

4. *JOSEPH C. HINSEY LOAN FUND.* Established through the generosity of the Olin Foundation, and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

5. *FEDERAL LOAN FUND.* The medical college has participated with the Department of Health, Education, and Welfare in establishing *A Health Professions Student Loan Fund*, Pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963.

NEW YORK STATE GUARANTEED LOANS FOR STATE RESIDENTS. Students seeking New York State guaranteed loans should apply to: New York Higher Education Assistance Corporation, 111 Washington Avenue, Albany 24, New York.

Prizes

1. *FOR GENERAL EFFICIENCY.* In commemoration of John Metcalfe Polk, an instructor in this College who was graduated from Cornell University Medical College June 7, 1899, and died on March 29, 1904, prizes will be presented at the end of the fourth year to the three students having the highest standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. *FOR EFFICIENCY IN OTOLARYNGOLOGY.* This prize is made avail-

able from the Arthur Palmer Fund provided by the members of the staff of otolaryngology in honor of Dr. Palmer. The prize will be given to the student of the graduating class who makes the best record in this specialty.

3. *FOR EFFICIENCY IN OBSTETRICS.* Two prizes have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, in obstetrics, to be given to the two students of the graduating class who have made the best record in obstetrics.

4. *FOR EFFICIENCY IN GENERAL MEDICINE.* The income from \$1,000 is offered as a prize for general efficiency in the department of medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at the end of the fourth year to a member of the graduating class who has pursued the full course at Cornell University Medical College.

5. *THE MARY ALDRICH FUND.* In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$150, and the second of \$50. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quadruplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than three weeks prior to the end of each academic year.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

For 1964 the William Mecklenburg Polk Prize awards for research were:

First Prize: Philip M. Hatfield.

Second Prize: Arthur H. Hayes, Jr., Lawrence W. Raymond, Judith J. Woodruff.

6. *THE WILLIAM C. THRO MEMORIAL FUND.* Established in memory of William C. Thro of the class of 1901 whose all-absorbing interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is to be given to the student showing the best record in the course in clinical pathology. The candidate for the prize is to be recommended by the professor of clinical pathology and the award made by the Committee on Prizes and Scholarships.

7. *THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY.* Established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, who was killed in action in the Netherlands on September 28, 1944. Dr. Herman L. Jacobus was a member of the class of 1939. The income of the fund is available annually to the student of the third or fourth year class who, in the

opinion of the staff of the department of pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If in any year no student merits the distinction the award will be withheld.

8. *THE BORDEN UNDERGRADUATE RESEARCH AWARD.* The terms of this grant by the Borden Company Foundation, Inc., provide for awards of \$500 during any one calendar year for a period of five years. The award will be made under the following terms and conditions:

1. All persons in the graduating class of the Medical College of Cornell University who, during any year while enrolled in the College, have carried out undergraduate research in the medical field shall be eligible for the Borden Undergraduate Research Award in Medicine. The award shall be presented at the time of his graduation to that eligible person whose research has been determined by the Medical College to be the most meritorious performed by all similarly eligible persons. Originality and thoroughness of research shall be of primary consideration.

2. In the event that the Dean shall find it inappropriate to make the award in any one year, the award may be deferred to another year. Only one award, however, will be made during any one calendar year.

Papers submitted for this prize should be in quadruplicate and must be in the Administration Office not later than three weeks before the end of the term.

The Borden Prize for Research for the year 1964 was awarded to Marshall Grode, Gino V. Segre, Jerry L. Spivak (co-authors).

9. *THE GOOD PHYSICIAN AWARD.* A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician*."

10. *CHARLES L. HORN PRIZE FUND.* The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. *THE SAMUEL HOLLANDER PRIZE.* The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the Committee on Scholarships.

12. *THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.* Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also as a research worker and a sculptor. The income of this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. This fund is made possible by the generosity of a student who wishes to remain anonymous.

13. *THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY.* A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income from this gift is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic

surgery. This award is to be made by the Dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

14. *THE HAROLD G. WOLFF RESEARCH PRIZE*. The prize consists of \$300 and a selection of writings representing Dr. Wolff's most creative scientific contributions. The award will be given at the Autumn Medical School Convocation to the Cornell undergraduate medical student of any class who has completed the outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted on or before September 1 to the Dean's Office.

15. *THE CLARENCE C. CORYELL PRIZE IN MEDICINE*. This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student having the highest general average in medicine up to the end of his junior year.

16. *THE CLARENCE C. CORYELL PRIZE IN SURGERY*. This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Aspects of and indispensable to true scholarship are included open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1964 were William L. Campbell, Burton A. Dudding II, Marshall L. Grode, Arthur H. Hayes, Jr., David M. Heimbach, Otto G. Klein, Jr., Robert H. Knopp, Louis D. Levi, Dennis S. O'Leary, Stephen A. Ross, Richard R. Sabo, Gino V. Segre, Jerry I. Spivak, and John D. Van Der Decker.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University at Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

Officers

George Schaefer '37	<i>President</i>
Alphonse E. Timpanelli '36	<i>Vice President</i>
Frederic T. Kirkham, Jr. '47	<i>Secretary</i>
Henry Mannix, Jr. '50	<i>Treasurer</i>
William A. Barnes '37	<i>Chairman, Alumni Fund</i>
William C. Coppersmith	<i>Coordinator of Alumni Activities</i>
Eleanor Knowles	<i>Executive Secretary</i>

Directors

<i>Three Year Term:</i>	Joseph T. Kauer '37; Milton Helpern '26
<i>Two Year Term:</i>	Henry H. Kessler '19; Carolyn Diehl Rubin '50
<i>One Year Term:</i>	Eric T. Carlson '50; Norman S. Moore '26; Maurice T. Root '18; J. James Smith '38

Bulletin

Richard T. Silver '53	<i>Editor</i>
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Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association, and the dues are \$10 a year. The activities of the Association include a quarterly publication, an annual banquet, student and faculty parties, student loan funds, and an employment bureau. The Association maintains an office at 1300 York Avenue.

The annual appeal for funds for the use of the Medical College is made to members of the Association.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

THE MEDICAL COLLEGE is divided into thirteen major departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, microbiology, pathology, pharmacology, and public health. Six departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are medicine, surgery, pediatrics, psychiatry, obstetrics and gynecology, and radiology.

The heads of these major departments, together with the President of the University and the Dean, constitute the Executive Faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one and often many more years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and psychobiology.

In the second year the student takes up work in microbiology, parasitology,

pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third year class meets daily for clinical lectures and demonstrations.

ELECTIVE TIME

In addition to scheduled free time in the curriculum for the first three years, elective time is available in the second and fourth years. In the second year, five half-days in the third trimester have no scheduled classes and may be used to pursue elective courses of special interest to the student, or for individual research.

A five-month period of experience in investigative work is available for the student who wishes to continue during the summer a research project begun in the second year elective time.

SUMMER FELLOWSHIPS

Several fellowships paying a stipend of \$600 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE YEAR RESEARCH FELLOWSHIPS

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

COURSE IN MEDICAL WRITING

LECTURER: Milton L. Zisowitz

A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.

DESCRIPTION OF COURSES

ANATOMY

ROY S. SWAN, Professor of Anatomy (*Chairman*)
JOSEPH C. HINSEY, Professor of Neuroanatomy

WILBUR D. HAGAMEN, Associate Professor of Anatomy
ERNEST W. LAMPE, Clinical Associate Professor of Anatomy
JOHN MACLEOD, Associate Professor of Anatomy
LEONARD L. ROSS, Associate Professor of Anatomy

THANE ASCH, Clinical Assistant Professor of Anatomy
SAUL BADER, Assistant Professor of Anatomy
DOROTHEA BENNETT, Assistant Professor of Anatomy
DANA C. BROOKS, Assistant Professor of Anatomy
THOMAS H. MEIKLE, Jr., Assistant Professor of Anatomy
BENJAMIN D. STINSON, Assistant Professor of Anatomy

Instructors:

Donald A. Fischman
Michael D. Gershon

Richard G. Skalko

Research Associate: Elsa H. J. O'Donnell

Research Fellows: Martin Hagopian
Morton Schatzman

Assistants:

Richard A. Borrison
Roberta M. Bruck
Jo Anne Munigle

Gloria Secunda
David Soifer

The study of human structure as a basis for the study and practice of medicine begins in the first trimester of the first year with courses in gross, microscopic, and developmental anatomy and genetics. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by functional or structural systems. The correlation of understanding of structure gained from these courses is encouraged by participation of certain staff members in two or more of the courses. The developmental basis for gross and microscopic structure and its variations is emphasized. The study of the structure of the brain and spinal cord begins in the second trimester and is coordinated with a study of the central nervous system through the cooperation of the staffs of the Departments of Anatomy and Physiology. The application of anatomical knowledge in diagnosis and treatment in medicine is demonstrated through clinical conferences and case presentations.

MICROSCOPIC ANATOMY . . . Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, X-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally presented

in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research techniques in microscopy, microtomy, histochemistry, tissue culture, and autoradiography are demonstrated. The functional and biochemical significance of fine structure is emphasized. Laboratory and lectures, 165 hours.

GROSS ANATOMY . . . Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems. Demonstration dissections and films supplement. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY . . . The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and by use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY AND GENETICS . . . Lectures and laboratory are designed to help the student visualize basic embryological relationships, and to introduce him to fundamental concepts and problems of heredity. Lectures in embryology stress those areas of early development, organogenesis, and experimental embryology which clarify aspects of adult structure and function and aid in understanding congenital defects. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and population theory.

ELECTIVE COURSES

A. For second year students, third trimester.

1. Electrical Methods in Neuroanatomical Research. Dr. Brooks.
2. Advanced Genetics. Seminar on special topics in genetics; topic for each semester to be chosen according to special interests and requirements of students. Drs. Bennett and Fitch.
3. Clinical Anatomy. A more selective and intensive dissection of the human body, with emphasis on clinical applications in medicine and surgery. Drs. Lampe and Swan.

B. For fourth year students during elective period.

4. Review Dissection of the Human Body.

GROSS ANATOMY FOR GRADUATES . . . Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

COURSE IN SURGICAL ANATOMY . . . An extensive review of surgical anatomy with demonstrations and dissections specially designed for candidates for the American Board of Surgery. The fee, \$200 for a term of four weeks,

includes matriculation, registration charges, and tuition. Limited to 25 persons. Dr. Ernest W. Lampe.

ADVANCED STUDY AND RESEARCH . . . Opportunities for first and second year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Pre-doctoral fellowships are available to students considering careers in pre-clinical science and wishing to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

BIOCHEMISTRY

VINCENT DU VIGNEAUD, Professor of Biochemistry (*Chairman*)

ROY W. BONSNES, Associate Professor of Biochemistry

AARON S. POSNER, Associate Professor of Ultrastructural Biochemistry

JULIAN R. RACHELE, Associate Professor of Biochemistry

ESTHER M. BRESLOW, Assistant Professor of Biochemistry

WILLIAM D. CASH, Assistant Professor of Biochemistry

WAH-YIP CHAN, Assistant Professor of Biochemistry

HELENA GILDER, Assistant Professor of Biochemistry

JULIUS GOLUBOW, Assistant Professor of Biochemistry

S. STEVEN HOTTA, Assistant Professor of Biochemistry

THEODORE A. MAHOWALD, Assistant Professor of Biochemistry

Instructors:

John J. Ferraro
Barbara M. Ferrier

Edward T. Schubert

Research Associates:

Luis A. Branda
George Flouret
Dieter Gillissen

Horst Schulz
Roderich Walter
Donald Yamashiro

The instruction in biochemistry is concentrated in the first year and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of biochemistry which is necessary to the comprehension of the bearings of chemistry upon medicine.

The schedule during the first and second terms is devoted to an intensive course in general biochemistry by means of lectures, demonstrations, and conferences. During the third term the instruction is centered largely in the laboratory and the conference room where the knowledge gained in the first two terms is consolidated and amplified. Considerable emphasis is laid upon quantitative rather than qualitative laboratory procedures. Throughout these lectures the application of biochemistry to the study of disease and metabolic disturbances is stressed. Collateral reading in biochemical literature is encouraged.

FIRST AND SECOND TERM . . . Lecture and conference course dealing with the chemistry and intermediary metabolism of proteins, fats, carbohydrates, and purines; enzymes, digestion, intestinal putrefaction, and feces; the composition of the tissues, blood, milk, and urine; hormones and vitamins; the elements of physical chemistry as applied to biology and medicine, with emphasis on the

fundamental properties of electrolytes and colloids. 33 hours, first term. 33 hours, second term.

THIRD TERM . . . Laboratory course with lectures and conferences extending the work of the first two terms. 154 hours, third term.

Electives

ADVANCED LABORATORY WORK OR RESEARCH . . . By special arrangement.

Courses Open to Special Students

BIOCHEMISTRY . . . Fee, \$25 a term.

BIOCHEMICAL LITERATURE . . . Seminar on the current literature in biochemistry, mainly for graduate students but open to a limited number of specially qualified medical students. Hours to be arranged. Professors du Vigneaud and Rachele.

BIOCHEMICAL PREPARATION . . . Laboratory dealing with the isolation, synthesis, and analysis of selected compounds of biological importance. Hours, credits, and fees to be arranged. The staff.

RESEARCH IN BIOCHEMISTRY . . . By arrangement with the head of the department.

MEDICINE

E. HUGH LUCKEY, Professor of Medicine (*Chairman*)

THOMAS P. ALMY, Professor of Medicine

JOSEPH H. BURCHENAL, Professor of Medicine

ANTHONY C. CIPOLLARO, Clinical Professor of Medicine (Dermatology)

JOHN E. DEITRICK, Professor of Medicine

HENRY S. DUNNING, Clinical Professor of Neurology in Medicine

CLAUDE E. FORKNER, Sr., Clinical Professor of Medicine

RICHARD H. FREYBERG, Clinical Professor of Medicine

ELLIOT HOCHSTEIN, Clinical Professor of Medicine

EDWARD W. HOOK, Jr., Professor of Medicine

FRANK I. HORSFALL, Jr., Professor of Medicine

MILTON I. KRAMER, Clinical Professor of Medicine

ALLYN B. LEY, Professor of Medicine

CARL MUSCHENHEIM, Clinical Professor of Medicine

FRED PLUM, Anne Parrish Titzell Professor of Neurology in Medicine

RULON W. RAWSON, Professor of Medicine

GEORGE G. READER, Professor of Medicine

DAVID D. THOMPSON, Professor of Medicine

ROBERT F. WATSON, Clinical Professor of Medicine

IRVING S. WRIGHT, Clinical Professor of Medicine

JEREMIAH A. BARONDESS, Clinical Associate Professor of Medicine

DAVID V. BECKER, Associate Professor of Medicine

E. LOVELL BECKER, Associate Professor of Medicine

HENRY P. CARR, Clinical Associate Professor of Medicine

GEORGE O. CLIFFORD, Associate Professor of Medicine

EUGENE J. COHEN, Clinical Associate Professor of Medicine

FRANK E. CORMIA, Clinical Associate Professor of Medicine (Dermatology)

FARRINGTON DANIELS, Jr., Associate Professor of Medicine (Dermatology)

JOHN W. DOUGHERTY, Clinical Associate Professor of Medicine (Dermatology)
 MURRAY DWORETZKY, Clinical Associate Professor of Medicine
 RALPH L. ENGLE, Jr., Associate Professor of Medicine
 AARON FEDER, Clinical Associate Professor of Medicine
 WILLIAM T. FOLEY, Clinical Associate Professor of Medicine
 WILLIAM GELIER, Clinical Associate Professor of Medicine
 JAMES L. GERMAN III, Associate Professor of Medicine
 SIDNEY M. GREENBERG, Clinical Associate Professor of Medicine
 LAWRENCE E. HINKLE, Jr., Clinical Associate Professor of Medicine
 MELVIN HORWITH, Clinical Associate Professor of Medicine
 GRAHAM H. JEFFRIES, Associate Professor of Medicine
 WILLIAM H. KAMMERER, Clinical Associate Professor of Medicine
 DAVID A. KARNOFSKY, Associate Professor of Medicine
 GEORGE L. KAUER, Clinical Associate Professor of Medicine
 B. H. KEAN, Clinical Associate Professor of Medicine (Tropical Medicine)
 THOMAS KILLIP III, Associate Professor of Medicine
 FREDERIC T. KIRKHAM, Jr., Clinical Associate Professor of Medicine
 GERALD H. KLINGON, Clinical Associate Professor of Neurology in Medicine
 JOHN S. LADUE, Clinical Associate Professor of Medicine
 CHARLES S. LIEBER, Associate Professor of Medicine
 ROBERT M. LINTZ, Clinical Associate Professor of Medicine
 MACK LIPKIN, Clinical Associate Professor of Medicine
 MARTIN LIPKIN, Associate Professor of Medicine
 DONALD B. LOURIA, Associate Professor of Medicine
 DANIEL S. LUKAS, Associate Professor of Medicine
 ELLEN McDEVITT, Associate Professor of Medicine
 FLETCHER McDOWELL, Associate Professor of Neurology in Medicine
 ROBERT HASTINGS MELCHIONNA, Clinical Associate Professor of Medicine
 W. P. LAIRD MYERS, Associate Professor of Medicine
 THEODORE W. OPPEL, Clinical Associate Professor of Medicine
 MARY ANN PAYNE, Clinical Associate Professor of Medicine
 RALPH E. PETERSON, Associate Professor of Medicine
 R. A. REES PRITCHETT, Clinical Associate Professor of Medicine
 WILLIAM C. ROBBINS, Clinical Associate Professor of Medicine
 SIDNEY ROTHBARD, Associate Professor of Medicine
 ALBERT L. RUBIN, Associate Professor of Medicine
 DONALD J. SIMONS, Clinical Associate Professor of Neurology in Medicine
 MARVIN H. SLEISENGER, Associate Professor of Medicine
 MARTIN SONENBERG, Associate Professor of Medicine
 CHESTER M. SOUTHAM, Associate Professor of Medicine
 ISRAEL STEINBERG, Clinical Associate Professor of Medicine
 PETER E. STOKES, Clinical Associate Professor of Medicine
 ALPHONE E. TIMPANELLI, Clinical Associate Professor of Medicine
 DOUGLAS P. TORRE, Clinical Associate Professor of Medicine (Dermatology)
 PARKER VANAMEE, Associate Professor of Medicine
 BRUCE P. WEBSTER, Clinical Associate Professor of Medicine
 BYARD WILLIAMS, Clinical Associate Professor of Medicine
 FELIX WROBLEWSKI, Clinical Associate Professor of Medicine

 SEYMOUR ADVOCATE, Clinical Assistant Professor of Medicine
 ANTHONY A. ANTOVILLE, Clinical Assistant Professor of Medicine
 KENNETH C. ARCHIBALD, Assistant Professor of Medicine (Physical Medicine and Rehabilitation)
 GEORGE C. ARMISTEAD, Jr., Clinical Assistant Professor of Medicine
 SAM C. ATKINSON, Clinical Assistant Professor of Medicine (Dermatology)
 OLAV AUSTLID, Clinical Assistant Professor of Medicine
 NILS U. BANG, Assistant Professor of Medicine
 LLOYD T. BARNES, Clinical Assistant Professor of Medicine
 CURTIS H. BAYLOR, Clinical Assistant Professor of Medicine
 BRY BENJAMIN, Clinical Assistant Professor of Medicine
 RICHARD S. BENUA, Assistant Professor of Medicine
 CARL A. BERNTSEN, Jr., Clinical Assistant Professor of Medicine
 NORMAN BRACHFELD, Assistant Professor of Medicine

KEEVE BRODMAN, Clinical Assistant Professor of Medicine
 VERONICA BROWN, Clinical Assistant Professor of Medicine
 J. ROBERT BUCHANAN, Assistant Professor of Medicine
 EDWARD A. BURKHARDT, Jr., Clinical Assistant Professor of Medicine
 SUSAN T. CARVER, Assistant Professor of Medicine
 AARON D. CHAVES, Clinical Assistant Professor of Medicine
 WILLIAM N. CHRISTENSON, Assistant Professor of Medicine
 BAYARD D. CLARKSON, Assistant Professor of Medicine
 HARVEY S. COLLINS, Assistant Professor of Medicine
 PAUL F. DE GARA, Clinical Assistant Professor of Medicine (Allergy)
 PETER G. DENKER, Clinical Assistant Professor of Neurology in Medicine
 WILLIAM J. EISENMENGER, Clinical Assistant Professor of Medicine
 ALBERT J. ERDMANN, Jr., Clinical Assistant Professor of Medicine
 HENRY R. ERLE, Clinical Assistant Professor of Medicine
 GEORGE C. ESCHER, Clinical Assistant Professor of Medicine
 JOHN A. FINKBEINER, Clinical Assistant Professor of Medicine
 JOHN T. FLYNN, Clinical Assistant Professor of Medicine
 ALVIN H. FREIMAN, Clinical Assistant Professor of Medicine
 CONSTANCE FRIESS, Clinical Assistant Professor of Medicine
 GEORGE W. FRIMPTER, Assistant Professor of Medicine
 EUGENE D. FURTH, Assistant Professor of Medicine
 HORACE T. GARDNER, Clinical Assistant Professor of Medicine
 ROBERT B. GOLBEY, Clinical Assistant Professor of Medicine
 CHARLES H. GOODRICH, Assistant Professor of Medicine
 GEORGE W. GORHAM, Clinical Assistant Professor of Medicine
 MARY E. W. GOSS, Assistant Professor of Sociology in Medicine
 ERNEST GREENBERG, Clinical Assistant Professor of Medicine
 KEITH O. GUTHRIE, Jr., Clinical Assistant Professor of Medicine
 THOMAS C. GUTHRIE, Clinical Assistant Professor of Neurology in Medicine
 SUSAN J. HADLEY, Assistant Professor of Medicine
 LEONARD L. HEIMOFF, Clinical Assistant Professor of Medicine
 MILTON HELPERN, Clinical Assistant Professor of Medicine
 LAWRENCE S. HOBSON, Clinical Assistant Professor of Medicine
 MILTON HOLLENBERG, Assistant Professor of Medicine
 EUGENE L. HORGER, Clinical Assistant Professor of Medicine
 HERBERT I. HOROWITZ, Clinical Assistant Professor of Medicine
 RAYMOND W. HOUDE, Assistant Professor of Medicine
 ABRAHAM S. JACOBSON, Clinical Assistant Professor of Medicine
 ANNA KARA, Assistant Professor of Medicine
 J. HARRY KATZ, Clinical Assistant Professor of Medicine (Dermatology)
 DONALD KAYE, Assistant Professor of Medicine
 LEMOYNE C. KELLY, Clinical Assistant Professor of Medicine
 ANNE C. KIMBALL, Assistant Professor of Microbiology in Medicine
 HENRY B. KIRKLAND, Clinical Assistant Professor of Medicine
 SAMUEL S. KOIDE, Assistant Professor of Medicine
 HERBERT KOTEEN, Clinical Assistant Professor of Medicine
 IRWIN H. KRAKOFF, Assistant Professor of Medicine
 HENN KUTT, Assistant Professor of Neurology in Medicine
 COSTAS T. LAMBREW, Clinical Assistant Professor of Medicine
 RICHARD E. LEE, Clinical Assistant Professor of Medicine
 ROBERT D. LEEPER, Assistant Professor of Medicine
 JERROLD S. LIEBERMAN, Clinical Assistant Professor of Medicine
 GLENN D. LUBASH, Assistant Professor of Medicine
 NORTON M. LUGER, Clinical Assistant Professor of Medicine
 MELVILLE G. MAGIDA, Clinical Assistant Professor of Medicine
 AARON J. MARCUS, Assistant Professor of Medicine
 KLAUS MAYER, Assistant Professor of Medicine
 ABRAHAM MAZUR, Clinical Assistant Professor of Biochemistry in Medicine
 A. PARKS MCCOMBS, Clinical Assistant Professor of Medicine
 RICHARD R. MCCORMACK, Clinical Assistant Professor of Medicine
 JAMES F. MCGOVERN, Clinical Assistant Professor of Medicine
 GEORGE A. McLEMORE, Jr., Clinical Assistant Professor of Medicine
 DANIEL G. MILLER, Assistant Professor of Medicine

IRWIN NYDICK, Clinical Assistant Professor of Medicine
 ARTEMIS G. PAZIANOS, Clinical Assistant Professor of Medicine
 FRANCIS S. PERRONE, Clinical Assistant Professor of Medicine
 NORMAN PLUMMER, Clinical Assistant Professor of Medicine
 JEROME B. POSNER, Assistant Professor of Neurology in Medicine
 JAMES W. RALEIGH, Clinical Assistant Professor of Medicine
 DONALD J. REIS, Assistant Professor of Neurology in Medicine
 JOHN C. RIBBLE, Assistant Professor of Medicine
 JACK RICHARD, Clinical Assistant Professor of Medicine
 EDGAR A. RILEY, Clinical Assistant Professor of Medicine
 THOMAS N. ROBERTS, Clinical Assistant Professor of Medicine
 BERNARD ROGOFF, Clinical Assistant Professor of Medicine
 DAVID M. ROSEMAN, Clinical Assistant Professor of Medicine
 ISADORE ROSENFELD, Clinical Assistant Professor of Medicine
 EMMANUEL RUDD, Clinical Assistant Professor of Medicine
 PAUL RUEGSEGGER, Clinical Assistant Professor of Medicine
 RICHARD H. SAUNDERS, Jr., Assistant Professor of Medicine
 PAUL D. SAVILLE, Assistant Professor of Medicine
 LAWRENCE SCHERR, Assistant Professor of Medicine
 ERNEST SCHWARTZ, Clinical Assistant Professor of Medicine
 ARTHUR W. SELIGMANN, Clinical Assistant Professor of Medicine
 CHARLES SHEARD, Clinical Assistant Professor of Medicine (Dermatology)
 PAUL SHERLOCK, Clinical Assistant Professor of Medicine
 MAURICE E. SHILS, Assistant Professor of Medicine
 RICHARD T. SILVER, Clinical Assistant Professor of Medicine
 LAWRENCE S. SONKIN, Clinical Assistant Professor of Medicine
 AARON D. SPIELMAN, Clinical Assistant Professor of Medicine (Allergy)
 NORTON SPRITZ, Assistant Professor of Medicine
 WILLARD H. SQUIRES, Clinical Assistant Professor of Medicine
 HERMAN STEINBERG, Clinical Assistant Professor of Medicine
 RICHARD W. STONE, Clinical Assistant Professor of Medicine
 JAMES C. STRICKLER, Assistant Professor of Medicine
 WILLIAM D. STUBENBORD, Clinical Assistant Professor of Medicine
 MARGUERITE P. SYKES, Assistant Professor of Medicine
 HAROLD R. WAINERDI, Clinical Assistant Professor of Medicine
 LILA A. WALLIS, Clinical Assistant Professor of Medicine
 CLINTON G. WEIMAN, Clinical Assistant Professor of Medicine
 AARON O. WELLS, Clinical Assistant Professor of Medicine
 CHARLES A. WERNER, Clinical Assistant Professor of Medicine
 ELLIOT WESER, Assistant Professor of Medicine
 A. LEE WINSTON, Clinical Assistant Professor of Medicine
 ALEXANDER W. YOUNG, Jr., Clinical Assistant Professor of Medicine

Instructors:

Richard E. Bettigole
 Robert G. Brayton
 Rosalie A. Burns
 Thomas Fahey
 Joseph A. Frascino
 Harvey G. Kemp, Jr.
 Young S. Kim

John T. Kimball, Jr.
 Carlton MacDonald
 Robert S. Martin
 Ralph L. Nachman
 Martin Nydick
 Kathleen L. Rives
 Gabrielle Reem

Edmund O. Rothschild
 Walter Rubin
 Ellen Scheiner
 Chull S. Song
 Kurt Stenzel
 Fritz H. Streuli
 Jeannine Williams

Clinical Instructors:

Henriette E. Abel
 Robert R. Abel
 William A. Anderson
 Lucien I. Arditi
 Ralph Baer
 Bertrand M. Bell
 James S. Bernstein

Harry Bienenstock
 Francis A. Boddy
 Aaron W. Bortin
 Warren S. Braveman
 Samuel H. Brethwaite, Jr.
 H. O. Brown, Jr.
 John Lyman Brown

Bernerd H. Burbank
 Donald J. Cameron
 Eric J. Cassell
 Hugh E. Claremont
 Melva A. Clark
 Burton D. Cohen
 C. Stephen Connolly

Francis P. Coombs
Denton S. Cox
Jean A. Cramer
Richard A. P. Cupiauoli
Jeff Davis
Marion Davis
Peter de Nesnera
Monroe T. Diamond
Carolyn H. Diehl
Robert E. Eckardt
Ernest R. Esakof
Ralph A. Eskesen
Claude E. Forkner, Jr.
Francis J. Gilroy
Selig M. Ginsburg
Robert D. Gittler
David L. Globus
David Gluck
Seymour Grossman
Marshall J. Hanley
Herman G. Helpert
Richard A. Herrmann
Raymond B. Hochman
Helene Holtz
Donald W. Hoskins
Norman J. Isaacs
Bernard Jaslowitz

Thomas P. Jernigan
Barry M. Josephson
Vincent Joy
Lawrence I. Kaplan
Susan Kessler
Bernard Koven
Martha Larson
Mortimer Lecker
Harold L. Leder
James W. Ledwith
Burton J. Lee III
Leo R. Lese
Richard J. Leswing
Bruce C. Levy
Charles M. Lewis
Majorie Lewisohn
John LoVerme
John F. Marchand
Mark R. Marciano
Neva Eileen McGrath
Allen W. Mead
David W. Molander
Willis A. Murphy
Luigia Norsa
Lawrence J. Parish
George E. Peabody
Sydnor B. Penick

Richard Perkins
Aurelia Potor
John H. Prunier
James A. Reilly
Milton Reisch
Sanford M. Reiss
Charles Ressler
Thomas G. Rigney
Seymour N. Rinzler
Julius Rogoff
Leonard Schuyler
Frank A. Seixas
Edward M. Shepard
Gerald M. Silverman
Harry A. Sinclair
Alan G. Snart
Peter H. Stern
Katharine W. Swift
Thomas T. Tamlyn
Louis J. Vorhaus II
Carl Wierum
Florence A. Wilson
Edward A. Wolfson
Edward L. Worthington
Seymour Zucker

Research Associates:

Milton S. Davis
Eleanor E. Deschner
Elizabeth A. Eilers

Borje E. V. Ejrup
Rhoda M. Michaels
Eladio A. Nunez

Muriel L. Sackler
Margaret E. Todd

Research Fellows:

Joseph A. Abbott
Sergio Acchiardo
Fritz H. Bach
Emory C. Beechwood
Robert T. Binford
Morton Blum
Robert Collier
Wayne E. Crill
Jose A. Figuieria da Silva
David F. Dozier
Norman H. Ertel
M. Elaine Eyster
Martin Gardy
Teruo J. Gemba
Fred A. Gill
Shreekant V. Gokhale

Howard Goldin
Michael Goldstein
Helen Goodell
Joel M. Gross
Peter C. Harpel
James M. Haynes
Juan Hernandez
James R. Hurley
Marian Isaacs
Ivan J. Kahn
Ludwig Klein
Richard J. Kossmann
Samuel Landau
John E. Lee
Carlos A. Mautalen
John P. Meyer

Matilde Mizrahi
Willibald Nagler
Andrew G. Plaut
Alexander G. Reeves
Norman Riegel
William R. Shapiro
Emanuel Theodor
Bart L. Troy
Claude Wasterlain
Anthony S. Werner
Stanley S. Yormak
David Zakim

Assistants in Medicine:

Emilio Abello
Irene Adams
H. Richard Beresford
George R. Blumenschein
William F. Brereton, Jr.
Hollister P. Brewster
Edward W. Callahan, Jr.

Philip Corsello
Walter Degnan
Robert N. Deutscher
Edwin Ettinger
Thomas P. Forde
Martin D. Gelfand
Victor Grann

Vincent Guinee
Joseph G. Hayes
Kenneth M. Heilman
Charles E. Hull
George Isaacs
Harold S. Isaacson
Thomas C. Jones

Neil I. Kaminsky
 Henry T. Keutman
 Harvey Klein
 Neil Klein
 Mary Jeanne Kreek
 Charles N. Leach, Jr.
 Louis Levovsky
 Allan Lipton
 Michael D. Lockshin
 Donald G. McKaba
 Richard W. Miller

Paul Mitchell
 Theodore C. Nagel
 Normand E. Olivier
 Kirk L. Peterson
 Johanna Pindyck
 William J. Schneider
 David A. Shachat
 Joseph D. Shields III
 Harvey Silver
 Carter Smith, Jr.
 James P. Smith, Jr.

Sara A. Stoesser
 Charles A. Stringfellow
 James R. Tracey
 Cecil D. Tripp
 John H. Walsh
 Harold M. Weitlauf
 Thomas F. Whyne
 Peter D. Williamson
 Robert J. Winchester
 William G. Winters
 Martin Wolfe

Lecturers in Medicine:

William G. C. Munroe (Tuberculosis)
 Robert L. Yeager (Tuberculosis)

Students begin their course in medicine with a required course in clinical pathology given in the second term of the second year under the direction of Dr. Hadley. It consists of lectures and laboratory work. Among the topics discussed are the theory, practice, and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied include chemical, morphological, serological, and animal inoculation methods which are of value as diagnostic procedures. Discussion of the clinical significance of findings is included.

An introductory course in methods of clinical examination, commonly called physical diagnosis, is given in the third term of the second year. The subject is introduced by means of lectures, demonstrations, and practical work with normal subjects and patients. Practical work with patients is done on the pavilions of The New York Hospital, Bellevue Hospital, New York Veterans Administration Hospital, and at Memorial Center.

A course in neurologic diagnostic methods is given in the third term of the second year. The work consists of demonstrations and intensive training in the discipline of neurological examination. The students in groups of three or four are assigned to an instructor on the neurology service of Bellevue Hospital. This work coincides in time with the other training in physical diagnosis.

In each of the terms of the third year, one third of the class receives in-patient experience in medicine. The student group is divided equally between The New York Hospital under the direction of Dr. Luckey and Bellevue Hospital under the supervision of Dr. Almy. The medical pavilions of The New York Hospital comprise 126 beds. The Cornell Bellevue Medical Service has approximately 120 teaching beds. The service includes patients with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the management of patients. They are therefore analogous to independent departments of dermatology and neurology in other hospitals. An active pulmonary service is functioning in close cooperation with the surgical and pediatric services. There is close cooperation with the department of psychiatry in the study of the neuroses and early manifestations of psychoses found in the wards and out-patient service.

The crux of the student's experience in third year medicine is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Through this he learns the methods of patient study crucial in medicine. He is given as much responsibility as is

practical, namely, the recording in the hospital records of his own histories and laboratory examinations. These, together with his physical examinations are supervised by tutors, each of whom has responsibility for the supervision of a small group of students. Additional teaching consists of rounds with the visiting and house staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. In these it is attempted to cover the more important fields of internal medicine. The work of the clerkships is supplemented by frequent clinical conferences which are held throughout the academic year. During the clinical clerkship the students receive further training in the evaluation of signs and symptoms of disease of the nervous system.

The instruction of the senior students is conducted in the Out-Patient Department with the intent of offering experience in general medicine, neurology, dermatology, and other medical specialties. Practical work with patients is supplemented by seminars, demonstrations, and specialty conferences. This experience for seniors has been fused with the Medical Comprehensive Care and Teaching Program, description of which will be found below.

Clinical-pathological conferences organized by the department of pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE EXPERIENCES: Opportunities for elective work and advanced research studies are available to a limited number of students in the following fields: allergy, cardiovascular disease, dermatology, endocrinology and metabolism, gastroenterology, hematology, infectious disease, neuroanatomy, neurology, physical medicine, and renal disease.

Medical Comprehensive Care and Teaching Program

The course in comprehensive medicine occupies the major attention of half the senior class during each of the two semesters of the fourth year. It is designed to be a synthesis of the many disciplines to which the medical student has been exposed and, as such, may be considered a laboratory course in patient care.

Both the Medical and Pediatric Clinics have been designed as Comprehensive Care Clinics in which, through the use of consultants, the diagnosis and treatment of patients are carried out with minimal referral to other clinics. In this exercise senior students play a responsible and functioning role.

Social factors in patient care are emphasized through participation of the staff of The New York Hospital social service department. One social worker has been appointed to coordinate the activities of this staff, as well as the services provided by community agencies. Similarly, Nursing Service provides consultation on the function and availability of community nursing resources.

Teaching of preventive medicine is the responsibility of a physician representing the department of public health.

Emotional aspects of disease are stressed through the participation of a selected group of psychiatrists from the department of psychiatry.

Representatives of the department of surgery and one from the department of obstetrics and gynecology provide appropriate consultation service in their specialties to the Comprehensive Care Clinics.

Part-time electives in medical and pediatric subspecialties, psychiatry, and laboratory research are offered each student in addition to the regular clinic work.

Dr. George G. Reader is in over-all charge of the program and is assisted by three assistant directors, two from the department of medicine together with the staff of the medical outpatient department, and one from the department of pediatrics together with the staff of the pediatric outpatient department.

MICROBIOLOGY

WILLIAM F. SCHERER, Professor of Microbiology (*Chairman*)

JOHN Y. SUGG, Professor of Microbiology

IRVING ABRAHAM, Assistant Professor of Microbiology

SIDNEY E. GROSSBERG, Assistant Professor of Microbiology

WILLIAM M. O'LEARY, Assistant Professor of Microbiology

BOB S. ROBERSON, Assistant Professor of Microbiology

DIETER H. SUSSDORF, Assistant Professor of Microbiology

Instructor:

Robert W. Dickerman

Research Fellow:

Cesar Wong-Chia

The course is presented in the first trimester of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying micro-organisms, experiments on the mechanisms of the different kinds of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease; special attention is given also to the immunological principles involved in the various manifestations of hypersensitiveness that occur in disease conditions of noninfectious origins.

ELECTIVE COURSES . . . Opportunities for advanced research studies in bacteriology, mycology, virology, immunology, or microbial biochemistry are provided to a limited number of students who wish to devote their elective time to studies in these subjects.

OBSTETRICS AND GYNECOLOGY

R. GORDON DOUGLAS, Professor of Obstetrics and Gynecology (*Chairman*) *

FRITZ F. FUCHS, Given Foundation Professor of Obstetrics and Gynecology (*Chairman*) †

JOSEPH F. ARTUSIO, JR., Professor of Anesthesiology in Obstetrics and Gynecology

EDWARD H. DENNEN, Clinical Professor of Obstetrics and Gynecology

RALPH W. GAUSE, Clinical Professor of Obstetrics and Gynecology

* To December 31, 1964.

† Effective January 1, 1965.

CHARLES M. McLANE, Clinical Professor of Obstetrics and Gynecology
 JOSEPH N. NATHANSON, Clinical Professor of Obstetrics and Gynecology
 FRANK R. SMITH, Clinical Professor of Obstetrics and Gynecology
 ROY W. BONSNES, Associate Professor of Biochemistry in Obstetrics and Gynecology
 E. WILLIAM DAVIS, Jr., Clinical Associate Professor of Obstetrics and Gynecology
 THOMAS F. DILLON, Clinical Associate Professor of Obstetrics and Gynecology
 RANDOLPH GEPPERT, Clinical Associate Professor of Obstetrics and Gynecology
 WILLIAM P. GIVEN, Clinical Associate Professor of Obstetrics and Gynecology
 OSCAR GLASSMAN, Clinical Associate Professor of Obstetrics and Gynecology
 ARTHUR V. GREELEY, Clinical Associate Professor of Obstetrics and Gynecology
 GRAHAM C. HAWKS, Clinical Associate Professor of Obstetrics and Gynecology
 DONALD G. JOHNSON, Clinical Associate Professor of Obstetrics and Gynecology
 ELMER E. KRAMER, Clinical Associate Professor of Obstetrics and Gynecology
 ROBERT LANDESMAN, Clinical Associate Professor of Obstetrics and Gynecology
 EDWARD C. MANN, Clinical Associate Professor of Obstetrics and Gynecology

BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology
 NELSON B. SACKETT, Clinical Associate Professor of Obstetrics and Gynecology
 GEORGE SCHAEFER, Clinical Associate Professor of Obstetrics and Gynecology
 WILLIAM J. SWEENEY, Clinical Associate Professor of Obstetrics and Gynecology
 MARJORIE J. TOPKINS, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology

HUGH K. BARBER, Clinical Assistant Professor of Obstetrics and Gynecology
 STANLEY J. BIRNBAUM, Clinical Assistant Professor of Obstetrics and Gynecology
 ALFRED BROCKUNIER, Clinical Assistant Professor of Obstetrics and Gynecology
 MYRON I. BUCKMAN, Clinical Assistant Professor of Obstetrics and Gynecology
 JUSTIN CALLAHAN, Clinical Assistant Professor of Obstetrics and Gynecology
 JOHN T. COLE, Clinical Assistant Professor of Obstetrics and Gynecology
 DAVID B. CRAWFORD, Clinical Assistant Professor of Obstetrics and Gynecology
 WILLIAM F. FINN, Clinical Assistant Professor of Obstetrics and Gynecology
 HORTENSE GANDY, Assistant Professor of Obstetrics and Gynecology
 ROBERT C. KNAPP, Clinical Professor of Obstetrics and Gynecology
 BERNARD NATHANSON, Clinical Assistant Professor of Obstetrics and Gynecology
 MELVILLE A. PLATT, Clinical Assistant Professor of Obstetrics and Gynecology
 RICHARD A. RUSKIN, Clinical Assistant Professor of Obstetrics and Gynecology
 SAMUEL F. RYAN, Assistant Professor of Obstetrics and Gynecology
 E. FLETCHER SMITH, Clinical Assistant Professor of Obstetrics and Gynecology
 EDWARD STANTON, Clinical Assistant Professor of Obstetrics and Gynecology
 ALAN VAN POZNAK, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology

Instructors:

Daniel Adams

Robert Hardy

Clinical Instructors:

Naef K. Basile
 Charles H. Bippart
 Perry S. Boynton, Jr.
 Jerome H. Brander
 Erskine Carmichael
 Anthony Deep
 Walter Freedman
 Hugh Halsey

James Johnson
 John R. Langstadt
 Cyril Marcus
 Stewart Marcus
 Frederick W. Martens
 Robert N. Melnick
 Myles C. Morrison
 Masao Nakamoto

Virginia K. Pierce
 John T. Queenan
 Frederick Silverman
 Jay B. Skelton
 E. Thomas Steadman
 William D. Walden
 Virginia Werden
 Robert E. Wieche

Assistants:

Gerald Anderson
 Tibor Engel
 Robert Fear
 Wilma Gladstone
 Richard Hnat

Robert Livingston
 Sanford Markham
 Paul McCleary
 Richard Murphy
 Joseph Raziano

Abraham Risk
 John Skowronski
 Barry Smith
 Stephen Terry

The Lying-In-Hospital, a division of The New York Hospital, provides 114 pavilion beds for teaching purposes in obstetrics and gynecology. In addition, the private service consists of a total of 85 beds. Students are given practical instruction in the out-patient department clinics of both obstetrics and gynecology and in the various special clinics designed for the more intensive study and care of patients with unusual problems. The students are provided every opportunity to benefit from the clinical work as carried on and demonstrated on the wards and in the operating and delivery rooms.

There are approximately 6000 adult admissions to the obstetrical service and 2500 to the gynecological service each year.

Second Year

ORIENTATION AND INTRODUCTION TO GYNECOLOGICAL EXAMINATION . . . During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given in groups of four students six days weekly, 4 hours. Professors Douglas, Kramer, Given, Johnson, and staff.

A limited number of students will be accepted by individual arrangement for summer work on research problems.

Third Year

COURSE I. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY . . . Lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology and diagnosis of diseases of the pelvic structures.

The entire class meets for these sessions on Mondays and Saturdays, 8:30 to 9:30 a.m., throughout the year. Professors Douglas, McLane, Kramer, Given, Johnson, Gause, and staff. Total hours, 66.

COURSE II. PRACTICAL INSTRUCTION . . . Given to one-sixth of the class for periods of one-half of a trimester (5½ weeks) on Tuesdays and Thursday, 9:30 a.m. to 11:30 a.m. Deals especially with physical diagnosis in both obstetrical and gynecological patients, and manikin exercises. Professors Dennen, Kramer, Hawks, Ruskin, Dillon, Bernard Nathanson, and staff.

COURSE III. SEMINAR . . . Given to one-sixth of the class for periods of one-half of a trimester (5½ weeks) on Tuesdays and Thursdays, 11:30 a.m. to 12:30 p.m. Conducted on an informal basis; active student participation is encouraged. The subject matter pertains largely to obstetrical complications of pregnancy and labor. Professors Given, Johnson, and staff.

COURSE IV. NEOPLASTIC DISEASES . . . Instruction in and discussions of the problems of malignant neoplastic disease and its early recognition. The basic concepts of radiation therapy, with emphasis on the application to malignant disease in the female generative tract. Given to one-third of the class each trimester. Mondays, 9:30 to 10:30 a.m. Professors Douglas, Burnett (Radiology), Dillon, Davis, and staff.

COURSE V. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . .

Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Given to one-third of the class each trimester. Mondays, 10:30 a.m. to 12:30 p.m. Professors Kramer, Davis, Snyder, and staff. Total hours, 77 for Courses II, III, IV and V.

Fourth Year

MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY . . . Comprises practical work in obstetrics and gynecology and is the sequel to the theoretical instruction offered to the third year students. Each student will serve in the Lying-In Hospital for a period of $7\frac{1}{2}$ weeks, during which time he will act as a clinical assistant in the obstetrical and gynecological department; this includes activities in hospital wards, delivery and operating rooms, and clinics. Some students will be provided with sleeping accommodations. The student is expected to participate in all departmental teaching functions. Daily rounds are held on each floor to keep him informed on all activities in addition to those relating to his assigned patients.

The practical work includes the prenatal care of many patients, attending them in labor and delivery as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine gynecological patients and to observe these patients through diagnostic and therapeutic procedures.

A conference is conducted each morning, 8 to 9 a.m., for those students assigned to the delivery floor. Problems encountered during the previous day are discussed. Active student participation is encouraged. Professor Nathanson.

Because of the nature of the service, night and weekend work is required. Minimum hours allotted to the course, 285.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS . . . A weekly staff conference is held on Mondays from 2 to 4 p.m. and rounds on Fridays from 11 a.m. to 1 p.m. Symposia and instructive case reports are presented with student participation. Professor Douglas and staff.

OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . . Current representative pathological material with a brief clinical history and microscopic projection will be presented each Wednesday from 5 to 6 p.m. Professor Kramer and staff.

SEMINARS . . . The four or five students assigned to gynecology meet each Wednesday and Thursday at 10 a.m. Professor Johnson.

Elective Courses

PRACTICAL OBSTETRICS AND GYNECOLOGY . . . A limited number of students will be accepted to serve as assistants in different clinics.

Courses can be arranged in the chemical, bacteriological, and pathological laboratories for the study of specific research problems. The special clinics provide teaching facilities and opportunities for clinical investigation in neoplastic disease, endocrinology, heart disease, infertility, and other fields. The various rounds and staff conferences can be attended.

Encouragement is given for original work according to the departmental facilities and the student's capabilities and in general will be designed to meet the student's qualifications.

PATHOLOGY

JOHN G. KIDD, Professor of Pathology (*Chairman*)

ROBERT C. MELLORS, Professor of Pathology

A. WHITLEY BRANWOOD, Associate Professor of Pathology

AARON KELLNER, Clinical Associate Professor of Pathology

GEORGE MURPHY, Associate Professor of Pathology

GOETZ W. RICHTER, Associate Professor of Pathology

JOHN F. SEYBOLT, Clinical Associate Professor of Pathology

JEAN E. TODD, Clinical Associate Professor of Pathology

PETER M. BURKHOLDER, Assistant Professor of Pathology

WILLIAM D. JOHNSON, Clinical Assistant Professor of Pathology

RICHARD P. KAROLL, Clinical Assistant Professor of Pathology

RICHARD M. TORACK, Assistant Professor of Pathology

Instructors:

Carl G. Becker

Jack W. C. Hagstrom

Andrew H. Littell

C. Richard Minick

William W. Schlaepfer

Leslie H. Sobin

Research Associate:

Benjamin A. Jackson

Visiting Fellow:

L. Whittington Gorham

Assistants:

Azak S. Eryol

Sin Hang Lee

Sheila Lim

Minoru Okuda

Charlotte Street

Lecturers:

Arthur S. Carlson

Milton Helpern

Theodore Robertson

General Pathology

FACILITIES

The department of pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, there is available a very considerable amount of constantly changing gross material for student study.

The post mortem service of The New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at The New York Hospital have been preserved since 1851, and in recent years protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION . . . Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair, and proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY . . . Required in the first and second terms of the second year.

Professor Kidd and staff. 264 hours.

NEUROPATHOLOGY . . . The pathology of the nervous system is studied, and altered structure and function are correlated.

Professor Torak. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES . . . These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES . . . A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

WALLACE W. McCrory, Professor of Pediatrics (*Chairman*)

FRED H. ALLEN, Jr., Clinical Associate Professor of Pediatrics

LEONA BAUMGARTNER, Clinical Associate Professor of Pediatrics

SAMUEL R. BERENBERG, Clinical Associate Professor of Pediatrics

MARGARET DANN, Associate Professor of Pediatrics

PAUL F. DE GARA, Clinical Associate Professor of Pediatrics (Allergy)

MARY A. ENGLE, Associate Professor of Pediatrics

NATHAN EPSTEIN, Clinical Associate Professor of Pediatrics

MARION E. ERLANDSON, Associate Professor of Pediatrics

JOHN E. FRANKLIN, Clinical Associate Professor of Pediatrics

JAMES L. GERMAN III, Associate Professor of Pediatrics

HENRY P. GOLDBERG, Clinical Associate Professor of Pediatrics

EDMUND N. JOYNER III, Clinical Associate Professor of Pediatrics

MILTON I. LEVINE, Clinical Associate Professor of Pediatrics
 M. LOIS MURPHY, Associate Professor of Pediatrics
 HENRY R. SHINEFIELD, Associate Professor of Pediatrics
 MAXWELL STILLERMAN, Clinical Associate Professor of Pediatrics
 AUGUST G. SWANSON, Associate Professor of Neurology in Pediatrics
 MARJORIE A. WHEATLEY, Clinical Associate Professor of Pediatrics
 HOWARD G. WORTHEN, Associate Professor of Pediatrics

BARBARA S. ASHE, Assistant Professor of Pediatrics
 PETER A. McF. AULD, Assistant Professor of Pediatrics
 RICHARD R. BASS, Clinical Assistant Professor of Pediatrics
 CHARLES H. BAUER, Clinical Assistant Professor of Pediatrics
 OTTO E. BILLO, Clinical Assistant Professor of Pediatrics
 ENRICO GANDINI, Visiting Assistant Professor of Pediatrics
 MARVIN J. GERSH, Clinical Assistant Professor of Pediatrics
 MARTIN J. GLYNN, Clinical Assistant Professor of Pediatrics
 JULIUS GOLUBOW, Assistant Professor of Biochemistry in Pediatrics
 MARGARET T. GROSSI, Clinical Assistant Professor of Pediatrics
 JAMES Q. HARALAMBIE, Clinical Assistant Professor of Pediatrics
 FREDERICK C. HUNT, Clinical Assistant Professor of Pediatrics
 MARGARET M. KUGLER, Clinical Assistant Professor of Pediatrics
 WAN NGO LIM, Assistant Professor of Pediatrics
 FLORENCE N. MARSHALL, Clinical Assistant Professor of Pediatrics
 ARMOND V. MASCHIA, Clinical Assistant Professor of Pediatrics
 ROBERT G. McGOVERN, Clinical Assistant Professor of Pediatrics
 MARION McILVEEN, Clinical Assistant Professor of Pediatrics
 VIRGINIA C. MITTY, Clinical Assistant Professor of Pediatrics
 JOAN E. MORGENTHAU, Clinical Assistant Professor of Pediatrics
 MARIA I. NEW, Assistant Professor of Pediatrics
 MADOKA SHIBUYA, Clinical Assistant Professor of Pediatrics
 MARTHA L. SMITH, Clinical Assistant Professor of Pediatrics
 GERTRUDE S. STERN, Assistant Professor of Pediatrics
 CHARLOTTE T. C. TAN, Assistant Professor of Pediatrics
 PETER S. TOLINS, Clinical Assistant Professor of Pediatrics
 LOUIS E. WEYMULLER, Clinical Assistant Professor of Pediatrics
 MYRON WINICK, Assistant Professor of Pediatrics
 STANLEY S. ZIPSER, Clinical Assistant Professor of Pediatrics

Instructors:

Margaret W. Hilgartner
 Margaret S. Lyman
 Hart deCoudres Peterson

Edward T. Schubert
 Alan A. Wanderer

Clinical Instructors:

Marvin Boris
 Mary C. Buchanan
 Walter T. Carpenter
 Leon I. Charash
 Ruth Cudmore
 Alan P. De Mayo
 Joseph H. Di Leo
 Philip W. H. Eskes

Yvette F. Francis
 Diane B. Gareen
 George S. Goldstein
 Carl P. Kremer
 Lenore S. Levine
 Karl Neumann
 Rebecca F. Notterman
 Olive E. Pitkin

Virginia E. Pomeranz
 Howard Schreiber
 Beatrice S. Slater
 David I. Smith
 Jerome M. Torsney
 Alvah M. Weiss

Research Associates:

Katherine Cobb

Helen McNamara

Research Fellows:

James S. Alexander
 Joan M. Arboit

Renée M. Brilliant
 Virginia C. Canale

Kathryn H. Ehlers
 Abby J. Greenberg

Edith P. Halvorson
Judith L. Jabloner

Melville G. Magida
Jean-Guy Mongeau

Donald W. Thibeault

Assistants:

Herman N. Frankel
Howard S. Gruber
Luther B. Lowe, Jr.
George H. McCracken, Jr.

Ruth D. Peters
Irwin Rappaport
Rachelle N. Remen
Louis P. Rodrigues

William T. Seed
Gail E. Solomon
Kytja K. Voeller
Richard M. Zakheim

Lecturer:

Henry N. Pratt

THIRD YEAR . . . A clinical lecture once a week throughout the entire school year presents the subjects of normal growth and development in infants and children and principles of nutrition with application to infant feeding, with patients illustrating the peculiarities of disease in early life. Students serve as clinical clerks in pediatrics for a period of five and one-half weeks on the pavilions of The New York Hospital. They are assigned new cases in rotation and gain experience in diagnosis and in the management of sick children requiring hospital residence. They are on duty in rotation at night and week ends. The work of the clinical clerkship includes attendance at cardiac clinics and at departmental conferences. Special rounds and seminars are arranged for the benefit of the clerks. Instruction in contagious disease is given at The New York Hospital. Total hours, 205.

FOURTH YEAR . . . The clinical lectures are continued through part of the fourth year and are closely integrated with the fourth year lectures in internal medicine. Many of the students' activities are a part of the Comprehensive Care and Teaching Program. Students are assigned to the outpatient department in the mornings, where they are given supervised responsibility for the management of ambulatory pediatric patients. They take histories, make physical examinations, and prescribe treatment. A daily therapeutic conference supplements the clinical work. A series of seminars is held under the supervision of senior staff members. Emphasis is placed on the psychological aspects of pediatrics and the measures which can be taken to promote proper growth and development. Both in the General Pediatric Clinics and the Well Baby Clinics students are given the opportunity for longitudinal follow-up of individual patients so as to become familiar with normal growth and development of infants and children and the natural history of disease processes. Total hours, 86.

Elective Courses

SECOND YEAR . . . Elective courses are offered to second year students in the third trimester. Participation in one of a number of research activities supervised by various members of the Pediatric Department can be arranged individually.

FOURTH YEAR . . . Elective courses are offered in clinical and research activities during the entire academic year. Full time or part time programs in the outpatient department or participation in a number of research activities under the supervision of members of the pediatric department can be arranged individually. A two month substitute internship on the pediatric medical in-patient service is also available.

PHARMACOLOGY

WALTER F. RIKER, JR., Professor of Pharmacology (*Chairman*)
HARRY GOLD, Clinical Professor of Pharmacology

WALTER MODEL, Associate Professor of Pharmacology
JAY ROBERTS, Associate Professor of Pharmacology
FRANK G. STANDAERT, Associate Professor of Pharmacology

AMIR ASKARI, Assistant Professor of Pharmacology
ALBERT S. KUPERMAN, Assistant Professor of Pharmacology

Instructors:

William T. Beaver Alan Van Poznak

Research Fellows:

Stewart Ehrreich Michiko Okamoto
Barrie Levitt Robert D. Roc

Lecturer:

Melvin S. Schwartz

SECOND YEAR . . . Laboratory work, demonstrations, seminars, and lectures are given during the first term of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently emphasis is placed on the scientific basis of pharmacology without particular reference to a systematic consideration of drugs or their applications. Rather, prototype substances serve to illustrate several mechanisms and parameters of drug action. 121 hours.

During the second trimester of the second year, the course in pharmacology is continued with two weekly lectures. In this phase of instruction systematic consideration is given to the pharmacologic properties of the more important drugs in current use. Therapeutic applications are not considered except where they uniquely illustrate pharmacologic characteristics. 22 hours.

FOURTH YEAR . . . Weekly seminars are held by the Pharmacology Department during the course in Comprehensive Medicine. The aim of these seminars is to review the pharmacologic properties of selected drugs and from this to ascertain the utility and limitations of these drugs in given clinical situations. Topics for discussion are determined chiefly by student choice. 11 hours.

Elective Courses

SECOND YEAR . . . An elective course is offered in the third trimester of the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced in the basic course, or to clarify, through research, some particular aspect of drug action. Scheduled seminars serve as a means for presentation and critical discussion of studies in progress. These activities are supervised closely by staff members and oriented as a graduate course. Consequently, registration is limited. 220 hours.

FOURTH YEAR . . . Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. Special opportunities are offered for work on the pharmacology of synaptic transmission, autonomic nervous system and the cardiovascular system.

Research in clinical pharmacology permits individuals to participate in drug evaluations with emphasis on the design of methods and experiments. Of particular interest is the measurement of subjective response in man.

BIOSTATISTICAL SEMINAR . . . Sponsored jointly by the Departments of Pharmacology and Public Health.

Meets weekly throughout the academic year to consider statistical procedures and theory, much of which is especially relevant to quantitative pharmacology. The topics considered include least squares theory, hypotheses testing with the conventional "t" test and chi-square procedures, analysis of variance, and probit analysis.

PHYSIOLOGY AND BIOPHYSICS

ROBERT F. PITTS, Professor of Physiology (*Chairman*)

GERHARD H. GIEBISCH, Associate Professor of Physiology

ROGER L. GREIF, Associate Professor of Physiology

D. ROBERT AXELROD, Clinical Assistant Professor of Physiology

COLIN FELL, Assistant Professor of Physiology

HAROLD G. HEMPLING, Assistant Professor of Physiology

RICHARD H. KESSLER, Clinical Assistant Professor of Physiology

SHERMAN KUPFER, Clinical Assistant Professor of Physiology

ERICH E. WINDHAGER, Assistant Professor of Physiology

Research Fellows:

Georges Fulgraff

Douglas M. Landwehr

Jose R. Martinez

Lou Ann Pilkington

George A. Tanner

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having housed on the fourth floor of its building the Graham Lusk Library of Physiology, a gift to the department from its late Professor Graham Lusk. This includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The

laboratory experiments are chosen to illustrate fundamental principles in the respective fields of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and The New York Hospital.

SECOND TERM . . . Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM . . . Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days per week. 187 hours.

A course in radiobiology is sponsored by the department of physiology, but presented in cooperation with the departments of radiology, pathology, microbiology, biochemistry, and medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lecture.

ELECTIVE COURSES . . . A seminar course in Topics in Biophysics and one in Fluid and Electrolyte Balance are offered to selected students during their second year elective time. An opportunity is offered to not more than five students during their second year elective period to participate as laboratory instructors in physiology. Research work for medical students during second and fourth year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

Courses Open to Special Students

1. **PHYSIOLOGY.** Fee, \$100 for each term.
2. **PHYSIOLOGICAL RESEARCH.** Subject to special arrangement with head of the department.

PSYCHIATRY

WILLIAM T. LHAMON, Professor of Psychiatry (*Chairman*)

FRANCIS J. HAMILTON, Clinical Professor of Psychiatry

ALEXANDER H. LEIGHTON, Professor of Psychiatry (Social Psychiatry)

MARVIN STEIN, Professor of Psychiatry

JAMES H. WALL, Clinical Professor of Psychiatry

ERIC T. CARLSON, Clinical Associate Professor of Psychiatry

FREDERIC F. FLACH, Clinical Associate Professor of Psychiatry

LAWRENCE E. HINKLE, JR., Clinical Associate Professor of Medicine in Psychiatry

RICHARD N. KOHL, Associate Professor of Psychiatry

DOROTHEA C. LEIGHTON, Clinical Associate Professor of Psychiatry (Social Psychiatry)

LEON L. RACKOW, Clinical Associate Professor of Psychiatry

ALBERT C. SHERWIN, Clinical Associate Professor of Psychiatry

PETER E. STOKES, Clinical Associate Professor of Medicine in Psychiatry
LIVINGSTON WELCH, Clinical Associate Professor of Psychology in Psychiatry

HELEN E. DANIELLS, Clinical Assistant Professor of Psychiatry
LAWRENCE J. HATTERER, Clinical Assistant Professor of Psychiatry
SEYMOUR G. KLEBANOFF, Clinical Assistant Professor of Psychology in Psychiatry
ALFRED B. LEWIS, JR., Clinical Assistant Professor of Psychiatry
WILLIAM V. LULOW, Clinical Assistant Professor of Psychiatry
JAMES F. MASTERSON, JR., Clinical Assistant Professor of Psychiatry
ROBERT S. MCCULLY, Assistant Professor of Psychology in Psychiatry
STANLEY T. MICHAEL, Clinical Assistant Professor of Psychiatry
JANE M. MURPHY, Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)
CURTIS T. PROUT, Clinical Assistant Professor of Psychiatry
FRED V. ROCKWELL, Clinical Assistant Professor of Psychiatry
RAUL SCHIAVI, Assistant Professor of Psychiatry
LEONARD R. STRAUB, Clinical Assistant Professor of Psychiatry
JOSEPH D. SULLIVAN, Clinical Assistant Professor of Psychiatry
WILLIAM H. WAINWRIGHT, Assistant Professor of Psychiatry
NATHANIEL WARNER, Clinical Assistant Professor of Psychiatry
HENRIETTE L. WAYNE, Clinical Assistant Professor of Psychiatry

Instructors:

David M. Clayson
Catherine H. Fales
Farouk F. Faragalla

Bernard Landis
Edward Y. Liang
Thomas J. Luparello

Vernon H. Sharp III
James H. Spencer

Clinical Instructors:

Edward T. Adelson
Arthur A. Anderson, Jr.
Roderick A. Armstrong
Stuart Ashman
Ralph D. Baker
James E. Baxter
A. Louise Brush
Robert S. Carson
Charles I. Celian
Remo R. Cerulli
John H. Chilman
Howard N. Cooper
Eleanor Crissey
Lois B. de Alvarado
Thomas L. Doyle, Jr.
Samuel V. Dunkell
G. Renee Ferguson
Theodore H. Finkle

Bernard Fisher
M. Freile Fleetwood
Gerard Fountain
Nicholas Freydborg
Myron L. Glucksman
Stephen Goodyear
Philip S. Herbert, Jr.
Peter T. Janulis
Francis D. Kane
Marilyn G. Karmason
M. Dorothea Kerr
Allison B. Landolt
Ludwig G. Laufer
Rene C. Mastrovito
Lillian E. McGowan
John F. McGrath
William K. McKnight
Wayne A. Myers

Maurice Pachter
Jacques M. Quen
Edwin R. Ranzenhofer
Martha K. Reese
Philip S. Robbins
George Samios
Marie-Louise Schoelly
C. Neil Taylor
Nathan Thal
Sylvia G. Traube
Kenneth F. Tucker
Edward A. Vadeika
Traer Van Allen
Morton L. Wadsworth
Louis Weinstein
Alden E. Whitney
Peter G. Wilson

Research Associates:

Albert N. Browne-Mayers
Pier Brunetti
Robert A. Danley

John S. Harding
Sam Korn
Mrs. Alice L. Longaker

Assistants:

Gene M. Abroms
A. Anthony Arce
Joseph Arcuri
I. Jewellyn B. Bigelow
Marvin B. Blitz
Marc M. Branchey

James W. Brown
Robert Daly
Lionel O. Friedman
David J. Gardner
Herbert M. Glasberg
Daniel J. O'Connell

Anna M. Renler
Richard M. Sallick
Marilyn R. Scheuing
Melvin J. Steinhart
Michael S. Stockheim
Zebulon Taintor

Research Assistants:

Arline Bronzaf

Roslyn Hayes

The department of psychiatry offers instruction during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods of their examination and study. In the third year, this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic and on the pavilions of The New York Hospital. In the psychiatric outpatient department, during the fourth year, the student participates in the study and treatment of the diverse problems presenting themselves in general psychiatric practice. The importance of personality problems in general medicine is taught in the pavilions of The New York Hospital, in the Comprehensive Care and Teaching Program, and in the outpatient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

FIRST YEAR: MEDICAL ASPECTS OF HUMAN BEHAVIOR . . . Students are presented with selected topics from the various behavioral science fields considered to be relevant to psychiatry. Synthesis and interrelations of theoretical and experimental findings in behavioral studies will be provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, 33.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION . . . The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. Offers practical experience in interviewing history taking and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY . . . Intended to clarify the descriptive and dynamic aspects of the major types of psychiatric disorders in such a way that the student will be able to formulate goals and method of treatment in all patients. The program includes lectures, seminars, and case discussions. Students examine and follow in-patients at the Payne Whitney Psychiatric Clinic; in addition, patients from the general hospital are reviewed. Total hours, 33.

FOURTH YEAR: CLINICAL PSYCHIATRY . . . In the outpatient department of the Payne Whitney Psychiatric Clinic, the student carries out the treatment of individual patients. Offers an opportunity to learn psychotherapy under close supervision and to understand the role of psychiatric social service and of psychological studies in the adjustment of these patients. Clinics with case presentation, with emphasis on psychiatric treatment and review of literature, are given on Wednesday from 2 to 3 o'clock. Total hours, 99.

ELECTIVE WORK . . . Opportunities for elective work are provided in the in- and outpatient departments, on the metabolic unit, in the laboratories of the Payne Whitney Psychiatric Clinic, and in the department of social psychiatry, with emphasis on community psychiatry and epidemiology of mental illness; and at the Westchester Division of The New York Hospital, White Plains, N.Y.

PUBLIC HEALTH

WALSH McDERMOTT, Livingston Farrand Professor of Public Health (*Chairman*)
 LEONA BAUMGARTNER, Clinical Professor of Public Health
 JOHN R. HELLER, Clinical Professor of Public Health
 WILLIAM T. INGRAM, Visiting Professor of Engineering in Public Health
 EDWIN D. KILBOURNE, Professor of Public Health

JAMES R. MCCARROLL, Associate Professor of Public Health

SAMUEL R. BERENBERG, Clinical Assistant Professor of Public Health
 AARON D. CHAVES, Clinical Assistant Professor of Public Health
 FLOYD M. FELDMANN, Assistant Professor of Public Health
 AUGUST H. GROESCHEL, Assistant Professor of Public Health
 RENE JAHIEL, Assistant Professor of Public Health
 ANN P. KENT, Clinical Assistant Professor of Public Health
 ROBERT M. McCUNE, Assistant Professor of Public Health
 PHILIP OLLSTEIN, Clinical Assistant Professor of Public Health
 JEROME L. SCHULMAN, Assistant Professor of Public Health
 MELVIN S. SCHWARTZ, Assistant Professor of Biometrics in Public Health

Instructors:

Clifford R. Barnett K. Marilyn Smart

Clinical Instructors:

Eric J. Cassell William Loery
 Gladys L. Hobby David Schottenfeld

Research Associate:

Julia T. Weld

Research Fellow:

Gerald Wijsmuller

Research Assistant:

Doris W. Wolter

The teaching aim of the department of public health is to help increase the students' understanding of disease by the study of those aspects of it that can best be perceived by the study of people in groups. To a considerable extent this involves both the identification of emerging disease problems and the ways they are shaped by the multiple interreactions among heredity, culture, and the physical and biologic environment. The character of the specific disease problems may change appreciably from one decade to another. Consequently, the major effort in the teaching is to help the student to apply the knowledge derived from the basic medical sciences and from clinical medicine, to the understanding of the emerging disease problems of the day.

The courses start at the beginning of the second year and are continued throughout the third and fourth years.

SECOND YEAR: PARASITOLOGY . . . The first course is in diseases caused by the larger parasites which are particularly prevalent in so-called economically underdeveloped areas and is given by Dr. B. H. Kean and his associates during

the second trimester of the school year. Dr. Kean is head of the tropical disease unit in the department of medicine and has had extensive field experience in the tropics. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens it to include microscopic parasites. Thus, although the major emphasis of the course is on microscopy, it also serves to introduce the student to the two principal ways for the study of disease in man—clinical medicine and epidemiology. The important larger parasites of man are considered: the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Tuesday, Thursday, Friday afternoon during the first three weeks of the second trimester, a lecture or demonstration is presented from 2 to 3 p.m., and the laboratory exercises are then carried on from 3 to 5 p.m. Total hours, 33 hours.

SECOND YEAR: EPIDEMIOLOGY . . . Immediately following the course Parasitology (also during the second trimester of the year) a course, Introduction to Epidemiology, is given under the direction of Dr. James McCarroll. Emphasis is placed on patterns of disease occurrence and spread in the population and consideration of the intimate relationship between the nature of a community and its disease problems. Some of the teaching in biometrics is also given in this course, which is held each Monday afternoon from 2 to 3 p.m., and four Saturday mornings from 9 to 12 throughout the second trimester. Total hours, 23.

THIRD YEAR . . . The course in the third year is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of a clear medical import which may be expected to represent major problems to the student's future patients and to himself. Except for the morning lectures, the teaching is all conducted with groups of 7 to 14 students. Total seminars and section work, 36 hours; total morning clinics, 33 hours.

FOURTH YEAR . . . The teaching program in the fourth year is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. One of the full-time members of the department is a regular member of the teaching staff of the CCTP Program and serves to coordinate the teaching activities of the other departmental members in the program. In addition, a series of 5 seminars are held during each one-half year. Total hours, 14.

Elective Courses

EPIDEMIOLOGY AND INFECTIOUS DISEASES . . . Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other laboratories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

RADIOLOGY

JOHN A. EVANS, Professor of Radiology (*Chairman*)

JAMES J. NICKSON, Professor of Radiology

ROBERT S. SHERMAN, Clinical Professor of Radiology

HAROLD L. TEMPLE, Clinical Professor of Radiology

DAVID V. BECKER, Associate Professor of Radiology

HARRY W. BURNETT, Associate Professor of Radiology

GUIDO CURRARINO, Associate Professor of Radiology

ROBERT H. FREIBERGER, Clinical Associate Professor of Radiology

ULRICH K. HENSCKE, Clinical Associate Professor of Radiology

RALPH F. PHILLIPS, Clinical Associate Professor of Radiology

ISRAEL STEINBERG, Clinical Associate Professor of Radiology

THANE ASCH, Assistant Professor of Radiology

ARNOLD BERRETT, Clinical Assistant Professor of Radiology

EUGENE BRONSTEIN, Clinical Assistant Professor of Radiology

WALTER BYCK, Assistant Professor of Radiology

FLORENCE CHIEN HWA-CHU, Clinical Assistant Professor of Radiology

KUO YORK CHYNN, Assistant Professor of Radiology

F. MITCHELL CUMMINS, Clinical Assistant Professor of Radiology

ELEANOR DESCHNER, Assistant Professor of Radiology (Radiobiology)

ELIZABETH FOCHT, Assistant Professor of Radiobiology (Physics)

EUGENE FURTH, Assistant Professor of Radiology

MORDECAI HALPERN, Assistant Professor of Radiology

GEORGE JASPIN, Clinical Assistant Professor of Radiology

PAUL J. KILLORAN, Assistant Professor of Radiology

MARVIN LORING, Assistant Professor of Radiology

ZUHEIR MUJAHED, Assistant Professor of Radiology

RUBEN POCHACZEWSKY, Clinical Assistant Professor of Radiology

NATHAN POKER, Assistant Professor of Radiology

THEODORE ROBINSON, Assistant Professor of Radiology

SAMUEL SEAL, Clinical Assistant Professor of Radiology

HENRY SELBY, Clinical Assistant Professor of Radiology

RUTH E. SNYDER, Clinical Assistant Professor of Radiology

STEPHEN WHITE, Clinical Assistant Professor of Radiology

Instructors:

George Stassa

Robin C. Watson

Harry L. Stein

Clinical Instructors:

H. Omar Hustu

Richard C. Packert

James R. Marquis

Alan Clark Scheer

Assistants:

Martin J. Edelman

Paul A. Urffer

James P. Flynn

Patricia H. Winchester

William B. Goldstein

Richard D. Wolfe

The teaching of radiology is conducted by didactic lectures, by section work with smaller groups in connection with clinical clerkships, and by presentation of the X-ray aspects of various cases at the regular conferences of the clinical departments. Moreover, elective courses given in the fourth year play an important part in supplementing these methods. A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is

constantly added to from the abundant material passing through the department. Three floors of the L Building are assigned to X-ray work. In addition, equipment for special examinations is located in the Woman's Clinic, urology, psychiatry, and elsewhere in the Medical College and Hospital.

During the first year, in collaboration with the department of anatomy, anatomical structures are visualized by radiographic and roentgenoscopic methods.

The didactic work consists of a series of eleven lectures to the entire second year class. These include the fundamental principles of radiation physics, X-ray diagnosis, and X-ray and radium therapy, with the aim of making the student aware at this stage of the various uses of X-rays. The indications and limitations are stressed.

Section work is conducted in the third year, while the students are serving as clinical clerks. The departments of medicine, pediatrics, and surgery assign each group receiving instruction from them to the department of radiology for regularly scheduled informal sessions. Specifically related X-ray material is presented and correlated with the clinical and laboratory findings. These sessions total approximately thirty hours.

Twenty lectures on roentgen diagnosis and radiation therapy are given to the fourth year class.

Electives: Fourth Year

(1) *X-RAY CLINICAL CLERKSHIP* . . . A limited number of students are accepted to observe, and assist where possible, in the routine activities of the department. The routine includes film interpretations, fluoroscopy, therapeutic irradiation, and attendance at radiology conferences. Two conferences are held daily (L-611) at which time the more interesting diagnostic and therapeutic problems are discussed. One conference is held from 11 a.m. to 12 m. The second session, from 1 to 2 p.m., is limited to a review of the current examinations of the gastrointestinal tract.

(2) *TECHNIQUE OF FLUOROSCOPY* . . . Two hours. Limited to six students. Arrangements to be made through the department head.

(3) *GASTROINTESTINAL FLUOROSCOPY AND FILM INTERPRETATION* . . . One month. Limited to six students at any one time.

SURGERY

FRANK GLENN, Lewis Atterbury Stimson Professor of Surgery (*Chairman*)

JOSEPH F. ARTUSIO, JR., Professor of Anesthesiology in Surgery

GORAN C. H. BAUER, Professor of Surgery (Orthopedics)

HERBERT CONWAY, Clinical Professor of Surgery (Plastic Surgery)

CRANSTON W. HOIMAN, Clinical Professor of Surgery

VICTOR F. MARSHALL, Clinical Professor of Surgery (Urology)

JOHN M. McLEAN, Clinical Professor of Surgery (Ophthalmology)

JAMES A. MOORE, Clinical Professor of Surgery (Otolaryngology)

S. W. MOORE, Clinical Professor of Surgery

STEN-ERIK OLSSON, Visiting Professor of Comparative Orthopedics in Surgery

ROBERT L. PATTERSON, JR., Professor of Surgery (Orthopedics)

BRONSON S. RAY, Clinical Professor of Surgery (Neurosurgery)

LEE R. STRAUB, Clinical Professor of Surgery (Orthopedics)

T. CAMPBELL THOMPSON, Clinical Professor of Surgery (Orthopedics)

PRESTON A. WADE, Clinical Professor of Surgery

WILLIAM A. BARNES, Clinical Associate Professor of Surgery
 CHARLES L. BURSTEIN, Clinical Associate Professor of Anesthesiology in Surgery (Orthopedics)
 EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery
 JOHN R. COBB, Clinical Associate Professor of Surgery (Orthopedics)
 WILLIAM COOPER, Clinical Associate Professor of Surgery (Orthopedics)
 WILLIAM A. COOPER, Clinical Associate Professor of Surgery
 PETER DINEEN, Clinical Associate Professor of Surgery
 JOHN W. DRAPER, Clinical Associate Professor of Surgery (Urology)
 HOWARD S. DUNBAR, Clinical Associate Professor of Surgery (Neurosurgery)
 EDWARD A. DUNLAP, Clinical Associate Professor of Surgery (Ophthalmology)
 JOHN H. ECKEL, Clinical Associate Professor of Surgery
 GEORGE F. EGAN, Clinical Associate Professor of Surgery (Dentistry)
 HELENA GILDER, Associate Professor of Surgery (Biochemistry)
 DAN M. GORDON, Clinical Associate Professor of Surgery (Ophthalmology)
 GEORGE R. HOLSWADE, Clinical Associate Professor of Surgery
 RICHARD C. KARL, Associate Professor of Surgery
 LEONARD KORNGOLD, Associate Professor of Microbiology in Surgery (Orthopedics)
 ERNEST W. LAMPE, Clinical Associate Professor of Surgery
 FREDERICK L. LIEBOLT, Clinical Associate Professor of Surgery (Orthopedics)
 BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Surgery
 JOHN H. MCGOVERN, Clinical Associate Professor of Surgery (Urology)
 WILLIAM F. NICKEL, Jr., Clinical Associate Professor of Surgery
 HERBERT PARSONS, Clinical Associate Professor of Surgery (Neurosurgery)
 S. FRANK REDO, Clinical Associate Professor of Surgery
 PETER-CYRUS RIZZO, Clinical Associate Professor of Surgery (Orthopedics)
 BJÖRN THORBJARNARSON, Clinical Associate Professor in Surgery
 JEAN E. TODD, Clinical Associate Professor of Pathology in Surgery
 MARJORIE J. TOPKINS, Clinical Associate Professor of Anesthesiology in Surgery
 GEORGE E. WANTZ, Clinical Associate Professor of Surgery
 JOHN P. WEST, Clinical Associate Professor of Surgery
 WILLET F. WHITMORE, Jr., Clinical Associate Professor of Surgery (Urology)
 PHILIP D. WILSON, Jr., Clinical Associate Professor of Surgery (Orthopedics)

IRVING BARAS, Clinical Assistant Professor of Surgery (Ophthalmology)
 STANLEY J. BEHRMAN, Clinical Assistant Professor of Surgery (Dentistry)
 FRANCIS A. BENEVENTI, Clinical Assistant Professor of Surgery (Urology)
 PAUL W. BRAUNSTEIN, Clinical Assistant Professor of Surgery
 ROLLA D. CAMPBELL, Jr., Clinical Assistant Professor of Surgery (Orthopedics)
 GEORGE N. CORNELL, Clinical Assistant Professor of Surgery
 JOHN H. DOHERTY, Assistant Professor of Surgery (Orthopedics)
 J. EDWIN DREW, Clinical Assistant Professor of Surgery (Urology)
 EDWARD D. EANES, Assistant Professor of Physical Chemistry in Surgery (Orthopedics)
 SIDNEY N. EICHENHOLTZ, Clinical Assistant Professor of Surgery (Orthopedics)
 HERBERT L. ERLANGER, Clinical Assistant Professor of Anesthesiology in Surgery
 HOILON W. FARR, Clinical Assistant Professor of Surgery
 HILLIARD E. FIRSCHEIN, Assistant Professor of Biochemistry in Surgery
 MILES A. GALIN, Assistant Professor of Surgery (Ophthalmology)
 HAROLD GENVERT, Clinical Assistant Professor of Surgery
 EDWARD I. GOLDSMITH, Clinical Assistant Professor of Surgery
 DICRAN GOULIAN, Jr., Clinical Assistant Professor of Surgery (Plastic Surgery)
 PETER M. GUIDA, Assistant Professor of Surgery
 ALEXANDER HERSH, Clinical Assistant Professor of Surgery (Orthopedics)
 JAMES M. HOLMAN, Clinical Assistant Professor of Surgery (Otolaryngology)
 GUSTAVUS A. HUMPHREYS, Clinical Assistant Professor of Surgery (Urology)
 ALLAN E. INGLIS, Clinical Assistant Professor of Surgery (Orthopedics)
 BERNARD JACOBS, Clinical Assistant Professor of Surgery (Orthopedics)
 JERRY HART JACOBSON, Clinical Assistant Professor of Surgery (Ophthalmology)
 VANSEL S. JOHNSON, Clinical Assistant Professor of Surgery
 RICHARD P. KAROLL, Clinical Assistant Professor of Pathology in Surgery
 JOSEPH T. KAUER, Clinical Assistant Professor of Surgery
 EDWARD B. C. KEEFER, Clinical Assistant Professor of Surgery
 RUSSELL W. LAVENGOD, Jr., Clinical Assistant Professor of Surgery (Urology)
 HARVEY A. LINCOFF, Clinical Assistant Professor of Surgery (Ophthalmology)

82 CORNELL MEDICAL COLLEGE

HENRY MANNIX, Jr., Clinical Assistant Professor of Surgery
 VICTOR MAYER, Clinical Assistant Professor of Surgery (Orthopedics)
 FREDERICK C. McLELLAN, Clinical Assistant Professor of Surgery (Urology)
 LAURENCE MISCALL, Clinical Assistant Professor of Surgery
 GEORGE C. MUELLER, Clinical Assistant Professor of Surgery (Otolaryngology)
 JAMES A. NICHOLAS, Clinical Assistant Professor of Surgery (Orthopedics)
 ARTHUR J. OKINAKA, Assistant Professor of Surgery
 RUSSEL H. PATTERSON, Jr., Assistant Professor of Surgery (Neurosurgery)
 ERIC C. RICHARDSON, Clinical Assistant Professor of Surgery (Ophthalmology)
 JOHN G. SCHMIDT, Clinical Assistant Professor of Surgery
 DONALD M. SHAFER, Clinical Assistant Professor of Surgery (Ophthalmology)
 PAUL A. SKUDDER, Clinical Assistant Professor of Surgery
 JAMES W. SMITH, Clinical Assistant Professor of Surgery (Plastic Surgery)
 STUART S. SNYDER, Clinical Assistant Professor of Surgery (Ophthalmology)
 ALAN VAN POZNAK, Clinical Assistant Professor of Anesthesiology in Surgery
 FRANK J. VEITH, Assistant Professor of Surgery

Instructors:

Joel B. Adler	John T. Fisher	George P. Rowan
Richard A. Baragry	Maury L. Hanson	Real Sasseville
Richard M. Bergland	Norman E. Hugo	Henry H. Sprague
Julius Conn, Jr.	Eugene M. Lance	H. Kirk Watson
Michael M. Conroy	G. Duncan McPherson	John C. Whitsell II
Arnold G. Diethelm	Charles K. McSherry	John R. Woodard
Roger R. Ecker	Edward C. Muecke	
Manuel Fernandes	Walter F. Pizzi	

Clinical Instructors:

Ahmad Akbari	Milton Gabel	John B. Ogilvie
Jacob Applebaum	Russell O. Gee	Patricia M. O'Neil
William D. Arnold	J. Theodore Geiger	Earl A. O'Neill
Samuel Avnet	Alexander W. Gotta	Walter L. Peretz
Howard D. Balansweig	William D. Graham	Thomas D. Rizzo
Raymond G. Barile	Charles K. Hamilton	George P. Santos
Leonard Biel, Jr.	Bruce R. Heinzen	Robert W. Schick
Dragan Borovac	I. David Horwich	Jerold Schwartz
Mitchell Brice II	Suzanne A. L. Howe	Michael Sierp
Michael Browne	Ann Huston	Martin Spatz
Anthony Camarda	Barnett J. Junker	David S. Speer
Thomas I. Carey	William F. Kearney, Jr.	John F. Struve
Robert L. Clarke	John G. Keuhnelian	Irvin S. Taylor
Edward C. Coats	Jerome Lawrence	Francis M. Tiers
Elizabeth F. Constantine	Louis J. Maggio	Philip H. Voorhees
Rudolph C. Dangelmajer	Alfred E. Mamelok	Joseph N. Ward
Robert D. Deans	Peter J. Marchisello	Jerome R. Weinroth
Wade Duley	Mary H. Markham	Roy C. Wiggans
Charles R. Dunbar	Joseph B. Mason	John R. Williams
Francis J. Fadden	Gerald J. Millstein	Peter Wei Ting Yu
Edgar P. Fleischmann	George R. Monahan	Robert B. Zufall
Mary Ann S. Frable	Juan Negrin	
William C. Frederick	William J. Nelson	

Research Associates:

Ronald W. Gillette	Joseph K. Gong	Bo E. R. Nilsson
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Research Fellows:

William M. Cocke, Jr.	Ruth E. Fabritius
-----------------------	-------------------

Assistants:

Donald W. Abel
James W. Asaph
Leslie L. Balasz
Kenneth R. Barasch
Arthur R. Beil, Jr.
Robert B. Caplan
Charles W. Carpenter
Aurelien Carre
Mary E. Cooney
Armand F. Cortese
Thomas M. Darrigan
Richard A. Davidson
Robert V. Davis, Jr.
Allan R. Dunn
Richard M. Ehrlich
Robert L. Fisher
Elizabeth A. M. Frost
Thomas M. Fulcher
Morris M. Hilf
Brent J. Holleran
O. Adrian Johnson
Aileen Kass

Daniel G. Kelly
Siavosh Khonsari
Warren W. Koontz, Jr.
George M. Lacy
Ferdinand LaVenuta
Ralph J. Lewis
Walter J. Loehr
Melvin G. Lund
J. Ralph Macfarlane
J. Bruce McGovern
Richard H. McShane
Richard G. Middleton
Joseph Moccia
Parvanch Modaber
Holland V. Moore
Lloyd A. Moriber
S. Kirby Orme
Benjamin S. Park, Jr.
Herbert S. Perry
John M. Pitman, Jr.
James D. Prokop
J. Richard Rees

Dwight M. Rost
Isam A. Sakati
John H. Seward
Arthur M. Smith
Raymond St. Pierre
Harold S. Strasser
William T. Stubenbord
Colleen A. Sullivan
David G. Susman
Kenneth G. Swan
Michael L. Testa
Theodore E. Trebowski
Garrett R. Tucker III
William P. Tunell
William S. Tunner
George M. Watkins
Dean H. Weaver
Seth M. Weingarten
Judith Weingram
William A. White
Kuhrt Wieneke, Jr.
Philip H. Zweifach

Research Assistants:

Rafael Caveno
Laurence S. Harris

Hideo Lucke Masuda

MEMORIAL HOSPITAL

HENRY T. RANDALL, Professor of Surgery

ALEXANDER BRUNSCHWIG, Clinical Professor of Surgery

EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery

MICHAEL R. DEDDISH, Clinical Associate Professor of Surgery

JOSEPH H. FARROW, Clinical Associate Professor of Surgery

JOSEPH G. FORTNER, Clinical Associate Professor of Surgery

EDGAR L. FRAZELL, Clinical Associate Professor of Surgery

WILLIAM S. HOWLAND, Associate Professor of Anesthesiology in Surgery

WALTER LAWRENCE, JR., Clinical Associate Professor of Surgery

GORDON McNEER, Clinical Associate Professor of Surgery

WILLIAM L. WATSON, Clinical Associate Professor of Surgery

WILLET F. WHITMORE, JR., Clinical Associate Professor of Surgery (Urology)

ROBERT J. BOOHER, Clinical Assistant Professor of Surgery

C. PAUL BOYAN, Assistant Professor of Anesthesiology in Surgery

WILLIAM G. CAHAN, Clinical Assistant Professor of Surgery

DANIEL CATLIN, Clinical Assistant Professor of Surgery

HOLLON W. FARR, Clinical Assistant Professor of Surgery

HARRY GRABSTALD, Clinical Assistant Professor of Surgery (Urology)

NORMAN L. HIGINBOTHAM, Clinical Assistant Professor of Surgery

ARTHUR I. HOLLEB, Clinical Assistant Professor of Surgery

JOHN S. LEWIS, Clinical Assistant Professor of Surgery

LUCILE LOSEKE, Clinical Assistant Professor of Surgery

THEODORF R. MILLER, Clinical Assistant Professor of Surgery

JOHN L. POOL, Clinical Assistant Professor of Surgery

GUY ROBBINS, Clinical Assistant Professor of Surgery

OLGA SCHWEIZER, Assistant Professor of Anesthesiology in Surgery

REUVEN K. SNYDERMAN, Clinical Assistant Professor of Surgery

MAUS STEARNS, JR., Clinical Assistant Professor of Surgery

JEROME A. URBAN, Clinical Assistant Professor of Surgery

Instructors:

Anita H. Goulet
Rita G. Jacobs

Ann H. Miller
Patricia S. Underwood

Clinical Instructors:

Lemuel Bowden
Richard D. Brasfield
Donald G. C. Clark
Angelo J. DePalo
James C. DiLorenzo
Alfred A. Fracchia
Frank P. Gerold

John T. Goodner
Charles C. Harrold, Jr.
Ralph E. L. Hertz
John C. Lucas, Jr.
A. Ranald Mackenzie
Ralph C. Marcove
Charles J. McPeak

Oliver S. Moore
Elizabeth P. Pickett
Stuart Quan
H. Randall Tollefsen
Horace W. Whiteley, Jr.

Assistants:

Myron Arlen
Frank B. Callipari
Norman M. Canter
Paul B. Chretien
Irvin D. Fleming

Harry S. Goldsmith
Eugene F. McDonough, Jr.
Paul H. O'Brien
Roy C. Page
Ronald H. Spiro

General Surgery

SECOND YEAR . . . Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Elective courses are provided in surgery for second year students in the third trimester. Opportunities to participate in experimental procedures in the laboratories for surgical research are available and are supervised by members of the teaching staff.

THIRD YEAR . . . In the third year the entire class attends a clinic, conducted by the head of the department or his immediate associates, at 8:30 every Wednesday morning. Usually two patients are shown as examples of one clinical entity. Three students are selected at the beginning of the hour to participate in the discussion as it is directed by the instructor. During the school year a total of thirty-three of these clinics is held. Those subjects are presented that lend themselves to enunciating general problems and principles of surgical therapy.

The third year class is divided into three sections. One section is assigned each term to surgery. In this period of twelve weeks the students are assigned to the clinics in the out-patient department of general surgery and the surgical specialties. Here they gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, where they are assigned new patients, taking a full history and doing a complete physical examination. Each case is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. These patients are seen on return visits by the same student in order that the results of diagnostic procedures and clinical course may be determined first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of General Surgery, as much responsibility as

possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to observe therapy among the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. The section is divided into operating teams of four: a surgeon, an anesthetist, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded pre- and postoperative care by the students simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, asepsis, hemostasis, and wound healing.

Four times weekly, lectures and demonstrations are presented to the group, dealing with clinical problems encountered in the activities of the out-patient department.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide a student with which to attain such an objective is to have him rotate through the general surgical and specialty clinics of the out-patient department. Not only does this provide a background for the source of patients, but also it affords an opportunity for him to see what surgical therapy may accomplish, and to see its associated complications that are to be observed in the minor surgical dressing clinics where patients return following surgery that has been performed within the hospital.

It is the intent that the student during his third year will learn the scope of surgery in therapy and diagnosis. At the same time he should become aware of the risks and complications commonly associated with it. If these two objectives are attained, then the student has a sound basis for selecting surgical therapy where indicated. This may be the beginning of the sense of discrimination in the selection of proper treatment so important in the armamentarium of a physician, regardless of his special interest, be it in general practice or a specialty.

FOURTH YEAR . . . In the fourth year the medical student becomes a clinical clerk on the surgical pavilions. The class is divided into six equal groups, each group serving for a term of approximately eight weeks, during which time they have no other responsibilities than those in surgery. As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on patients assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first-hand the pathological condition for which the operation was undertaken. He has specific responsibilities in the postoperative care of the

patient. Thus the fourth year student is, in a sense, an intern under supervision. He attends the rounds held by the resident staff and members of the senior staff:

PEDIATRIC SURGERY. The students are assigned in rotation to the pediatric surgical unit. History taking and physical examination are supplemented by participation in operations. Ward rounds are conducted weekly for the students by the attending staff.

FRACTURE CONFERENCE. In the late afternoon on Tuesday a conference conducted by the senior and resident staff, reviewing the fracture patients, is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 on Saturday mornings clinical clerks attend grand rounds together with the entire resident and senior staff of the department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed—from 5 p.m. to 9 a.m., Monday through Friday, and over the weekend. The wide range of conditions requiring emergency or urgent measures seen by the clinical clerk is a valuable experience.

PATHOLOGY CONFERENCE. Once a week a two-hour conference is devoted to surgical pathology. Surgical specimens removed in the operating room are reviewed, and also microscopic slides are studied.

NOON CLINICAL CONFERENCE. Five times a week a clinical conference is held at the bedside. Diagnosis, preoperative and postoperative care, and complications in general surgery and the specialties are discussed.

SEMINAR. On Saturdays from 10:30 to 12:30 throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present new advancements of surgery. It is the objective of these exercises to place in the hands of the medical student a means of evaluating a new development in surgery, so that as a physician later he will be able to better assess in a methodical and critical manner new proposals. Thus he may provide proper guidance for his patients.

By constant and uninterrupted association with "his" patients and those who are caring for them, the student gains direct experience with the normal course following major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the fourth year student during his clinical clerkship on surgery.

Elective Courses

ANESTHESIOLOGY . . . Maximum of two students. Four or eight weeks throughout the year. Daily seminars in the theory of anesthesia are combined with practical experience in the administration of anesthesia. The student may participate under supervision in the operating room in the administration of anesthesia.

SURGICAL RESEARCH LABORATORY . . . Maximum of two students during each term. The students participate in the experimental study of peptic ulcer, cardiovascular surgery, liver disease, and transplantation of tissues. The participation in experimental operative procedures is stressed. Experiments in surgical physiology may be done in association with members of the surgical staff. Students may also take part in the studies of surgical metabolism and the response of surgical patients to operation. A weekly surgical research meeting is held.

SURGICAL PATHOLOGY . . . Maximum of two students for four or eight weeks throughout the year. A discussion is conducted each morning when the slides are read and the histologic diagnosis is made. An opportunity is provided to assist in the gross examination of the surgical specimens each afternoon. Instruction is given in the technique of frozen sections.

STUDENT CLERKSHIP . . . Individual arrangement may be made to participate in the surgical specialties as substitute interns for four to eight weeks in urology, plastic surgery, neurosurgery, and fractures. Each service has daily teaching rounds and weekly seminars. Experience in patient management and in the operating room is stressed.

SURGICAL PHYSIOLOGY . . . Maximum of four students. Eight weeks' course, throughout the year. Complete study of electrolyte balance. Students participate in clinical patient care under the supervision of attending physicians. Supplemented by lectures and group discussions.

CARDIOVASCULAR SURGERY . . . An opportunity is available for one student each period to participate in laboratory and clinical use of the extracorporeal pump-oxygenator.

ORTHOPEDIC SURGERY . . . Maximum of four students for eight weeks. Active participation on the in-patient services with emphasis on children's orthopedics, including experience in the operating theater. Out-patient activities including those special clinics which fit the student's particular interests. Interview arranged through Medical Education Office, Hospital for Special Surgery.

HOSPITAL FOR SPECIAL SURGERY . . . Immunopathology. Maximum of two students throughout the year. An introduction to a challenging area of research which lies at the boundary between pathology and immunology. The cellular origin of antibodies and pathologic immunoglobulins, experimental hypersensitivity, autoimmunity, and rheumatic diseases. The student will be expected to become familiar with the method of immunofluorescence in theory and in practice.

Immunology. One student throughout the year. Laboratory training in immunologic approaches to clinical research.

Virology. One student throughout the year. Will provide an opportunity to study the replication of viruses in tissue culture, using such technics as plaque formation, immunofluorescent foci, and other methods, and to study the relationship of viruses to cancer by means of tissue cultures and experimental animals.

Biochemistry. One student throughout the year. Participation in chemical work on serum compounds which inhibit complement fixation reactions; Bence-Jones proteins; normal and pathologic macroglobulinism; rheumatoid factor.

Physiological chemistry. One student throughout the year. Calcium metabolism

and the metabolism of the skeleton. Opportunity to become acquainted with principles of the kinetic studies and laboratory procedures involved. The latter may include radioisotopes.

For all the above, interview will be arranged through Medical Education Office, Hospital for Special Surgery.

SPECIAL STUDENTS

ALL STUDENTS not registered in Cornell University Graduate School and not registered for the M.D. degree are SPECIAL STUDENTS.

Such students are SPECIAL STUDENTS in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

Matriculation Fee	\$10
Administration Fee	\$ 5

Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246				
Microscopic Anatomy	165				
Neuroanatomy	84				
Developmental Anatomy and Genetics	77				572
BIOCHEMISTRY	220				220
MICROBIOLOGY & IMMUNOLOGY		165			165
PHYSIOLOGY	231				231
RADIOBIOLOGY	11				11
PATHOLOGY		297			297
PHARMACOLOGY		154		11	165
PHYSICAL DIAGNOSIS *		187			187
MEDICINE:					
Clinical Pathology		77			
Specialties, Clerkship, & OPD			352	325	
Lectures			33		787
MEDICAL COMPREHENSIVE CARE †				300	300
SURGERY:					
Ophthalmology					
Introductory Surgery					
Specialties, Clerkship, & OPD			352	285	
Lectures			33		670
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction			77	285	
Lectures			66		428
PEDIATRICS:					
Practical Instruction			154	86	
Lectures			33		
Contagious Disease			18		291
PSYCHIATRY:					
Medical Aspects of Human Behavior	33				
Psychiatry		33	33	66	
Lectures				33	198
PUBLIC HEALTH:					
Parasitology		33			
Field and Section		12	36	14	
Lectures		11	33		139
RADIOLOGY			30	20	50
ELECTIVE HOURS		165		285	450
TOTALS	1067	1123	1250	1710	5161

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† The Medical Comprehensive Care Program is a joint project of all clinical departments and the department of public health. In addition to the 300 hours not assigned to any one department, this program embraces the assigned fourth year curricular hours of medicine and pediatrics and part of those of psychiatry.

FIRST YEAR SCHEDULE

1964-1965

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Microscopic Anatomy	Developmental Anatomy and Genetics	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Microscopic Anatomy
10-11		Gross Anatomy				
11-12						
12-1			Developmental Anatomy and Genetics			
1-2	Biochemistry	Developmental Anatomy and Genetics	Free	Biochemistry	Biochemistry	
2-3	Developmental Anatomy and Genetics	Gross Anatomy		Psychiatry	Developmental Anatomy and Genetics	
3-4	Microscopic Anatomy			Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
9-10	Neuroanatomy	Physiology	Physiology	Physiology	Gross Anatomy	Physiology			
10-11		Gross Anatomy	Neuroanatomy	Neuroanatomy		Psychiatry			
11-12									
12-1									
1-2	Biochemistry		Biochemistry	Biochemistry					
2-3	Gross Anatomy	Gross Anatomy		Psychiatry	Gross Anatomy				
3-4				Free					
4-5									

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
9-10	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology	
10-11						Radio-biology *	
11-12							
12-1							
1-2							
2-3	Biochemistry	Physiology	Free	Physiology	Physiology		
3-4							
4-5	Free				Free		

* Multidepartmental course.

SECOND YEAR SCHEDULE
1964-1965

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pharmacology	Pathology	Pharmacology	Pathology	Pharmacology	Pharmacology
10-11			Microbiology			Microbiology
11-12						
12-1						
1-2						
2-3	Microbiology	Microbiology	Free	Microbiology	Microbiology	
3-4		Pharmacology				
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
9-10	Pathology	Pathology	Pathology	Pathology	Pathology	Pb. Hl.†		
10-11								
11-12			Pharmacology					
12-1								
1-2								
2-3	Pb. Hl.	Clinical Pathology	Free	Parasitology	Pharmacology			
3-4	Clinical Pathology				Clinical Pathology			
4-5								

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neurology (9:00-12:00) Group A Elective Groups B, C, D	Neurology (9:00-12:00) Group B Elective Groups A, C, D	Neurology (9:00-12:00) Group C Elective Groups A, B, D	Neurology (9:00-12:00) Group D Elective Groups A, B, C	Psychiatry	Elective
10-11						
11-12						
12-1					Neurology Lecture	
1-2						
2-3	Physical Diagnosis *	Physical Diagnosis *	Physical Diagnosis *	Elective	Physical Diagnosis *	
3-4						
4-5						

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† For four weeks only, beginning after Christmas recess.

THIRD YEAR SCHEDULE
1964-1965

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Group A: Medicine (1); Ob.-Gyn., Ped., Psych., Pb. Hl. (2); Surgery (3). Group B: Surgery (1); Medicine (2); Ob.-Gyn., Ped., Psych., Pb. Hl. (3). Group C: Ob.-Gyn., Ped., Psych., Pb. Hl. (1); Surgery (2); Medicine (3).					
1-2			Free			
2-3						
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERM (5½ WEEKS)
PEDIATRICS

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Pediatrics				
1-2						
2-3	Pediatrics	Pediatrics	Free	Pediatrics		
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERMS (5½ WEEKS)
OBSTETRICS AND GYNECOLOGY, PSYCHIATRY,
PUBLIC HEALTH, CONTAGIOUS DISEASES

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Ob.-Gyn.	Ped.	Ob.-Gyn.	Pb. Hl.	
1-2						
2-3		Psychiatry	Free	Psychiatry	Pb. Hl.	
3-4						
4-5	C.P.C.					

FOURTH YEAR SCHEDULE
TWO SEMESTERS, 22½ WEEKS EACH; SIX DIVISIONS
JUNE 22 to MAY 28

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-1	<i>1st Semester</i> Section I Medical Comprehensive Care D Elec. (1); Ob.-Gyn. (2); Surg. (3). Section II E Surg. (1); Elec. (2); Ob.-Gyn. (3). F Ob.-Gyn. (1); Surg. (2); Elec. (3).			<i>2nd Semester</i> { A Elec. (1); Ob.-Gyn. (2); Surg. (3). B Surg. (1); Elec. (2); Ob.-Gyn. (3). C Ob.-Gyn. (1); Surg. (2); Elec. (3). Medical Comprehensive Care		
1-2						
2-3			Psychiatry			
3-4						
4-5	C.P.C.		Special Lect.			

DETAILED SCHEDULE
MEDICAL COMPREHENSIVE CARE

Morning:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Group I { A B	Pediatrics Medicine	Medicine Pediatrics	Pediatrics Medicine	<i>All Groups</i> (9:00-10:00) Lecture (10:00-11:30) Medical Grand Rounds (12:00-1:00) Radiology	Medicine Pediatrics	<i>All Groups</i> Special Conference
II { C D	Seminar Sp'ty Elec.	Sp'ty Elec. Seminar	Seminar Medicine S		Sp'ty Elec. Seminar	
Afternoon:						
I { A B	{ Seminar Pediatrics Sp'ty Elec.	Sp'ty Elec. Seminar	<i>All Groups</i> (2:00-3:00) Psychiatry (3:00-4:00) Com. Care Conf (4:00-5:00) Special Lecture	Seminar Sp'ty Elec.	{ Seminar Pediatrics	
II { C D	Psychiatry Medicine	Medicine Psychiatry		Psychiatry Medicine	Medicine Psychiatry (4:00-5:00) <i>All Groups</i> Pediatric Grand Rounds	

SLOAN-KETTERING DIVISION

GRADUATE SCHOOL OF MEDICAL SCIENCES

BY AGREEMENT dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of the New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College.

Under this agreement, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information and as a coordinator of those functions in which all of the parties to this agreement are interested and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

Representatives of Memorial Hospital

John M. Walker

B. Brewster Jennings

Representatives of Sloan-Kettering Institute

Warren Weaver

Frank L. Horsfall, Jr.

Representatives of Cornell University

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees
James Alfred Perkins, President of the University

Representatives of the Society of the New York Hospital

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of the Main Laboratory, 410 East 68th Street, the Kettering Laboratory, 425 East 68th Street, New York City, and the Walker Laboratory, 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. The Main Laboratory is in direct connection with two hospitals; Memorial Hospital, a voluntary institution of 280 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences, but not in any of the clinical fields. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

BIOCHEMISTRY

AARON BENDICH, Professor of Biochemistry
OSCAR BODANSKY, Professor of Biochemistry
GEORGE B. BROWN, Professor of Biochemistry
LIEBE F. CAVALIERI, Professor of Biochemistry
C. CHESTER STOCK, Professor of Biochemistry

M. EARL BALIS, Associate Professor of Biochemistry
RALPH K. BARCLAY, Associate Professor of Biochemistry
JACK J. FOX, Associate Professor of Biochemistry
MARY L. PETERMANN, Associate Professor of Biochemistry
MORTON K. SCHWARTZ, Associate Professor of Biochemistry
MARTIN SONENBERG, Associate Professor of Biochemistry
HELEN Q. WOODARD, Associate Professor of Biochemistry

ELLEN BORENFREUND, Assistant Professor of Biochemistry
JOHN F. CODINGTON, Assistant Professor of Biochemistry
PAUL J. FODOR, Assistant Professor of Biochemistry
SAUL GREEN, Assistant Professor of Biochemistry
DIETRICH HOFFMANN, Assistant Professor of Biochemistry
SAMUEL S. KOIDE, Assistant Professor of Biochemistry
JEROME S. NISSELBAUM, Assistant Professor of Biochemistry
JOSEPHINE S. SALSER, Assistant Professor of Biochemistry
VLADIMIR P. SKIPSKI, Assistant Professor of Biochemistry

Research Associates:

Mary G. Hamilton
Willi Kreis

Samuel J. Levin
Barbara H. Rosenberg

Intensive study is offered in the fields of enzymology, bio-organic chemistry, molecular biology, and metabolism of proteins and nucleic acids.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

FRANK L. HORSFALL, JR., Professor of Microbiology
FREDERICK S. PHILIPS, Professor of Pharmacology
GEORGE W. WOOLLEY, Professor of Biology

CHARLOTTE FRIEND, Associate Professor of Microbiology
LEONARD D. HAMILTON, Associate Professor of Biology
DORRIS J. HUTCHISON, Associate Professor of Microbiology
WILLIAM L. MONEY, Associate Professor of Biology
ALICE E. MOORE, Associate Professor of Biology
H. CHRISTINE REILLY, Associate Professor of Microbiology

ETIENNE DE HARVEN, Assistant Professor of Biology
WILBUR F. NOYES III, Assistant Professor of Biology
LLOYD J. OLD, Assistant Professor of Biology
HERBERT S. SCHWARTZ, Assistant Professor of Pharmacology

FRANCIS M. SIROTNAK, Assistant Professor of Microbiology
 MORRIS N. TELLER, Assistant Professor of Biology

Research Associates:

Alberta M. Albrecht
 June L. Biedler

James G. Cappuccino
 Louis Kaplan

Students are directed particularly toward the factors which initiate, control, and modify the growth of normal and neoplastic tissues. Following this orientation, study is offered in pharmacology, experimental cancer chemotherapy, microbiology, endocrinology, cytology, genetics, and virology. A brief specialized course is offered in the chemotherapy of cancer for physicians and research workers in October.

Undergraduate prerequisites include courses in organic chemistry, inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, mathematics (through calculus), anatomy, general biology or general zoology or general botany, general microbiology, pathogenic bacteriology, physiology, cytology, and genetics. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Prerequisite graduate courses will be determined for each individual on the basis of his particular area of interest.

BIOPHYSICS

JOHN S. LAUGHLIN, Professor of Biophysics

EDWARD R. EPP, Assistant Professor of Biophysics
 HAROLD MOROSON, Assistant Professor of Biophysics
 IRA PULLMAN, Assistant Professor of Biophysics

Research Associates:

Karin R. Corey

Peter J. Kenney

Louis Zeitz

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the co-existence of fundamental research and practical and clinical applications in the same Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of the metabolism of various isotope-labeled compounds in man; metabolism of biologically important compounds in tissue cultures of human tumor cells, in bacteria, and viruses; the mechanism of radiation action on bacteria, phage, yeast, and small animals, including metabolic studies with human and other tumors influenced by radiation under different environmental

conditions; trace element analysis of tissue sections by means of fluorescent x-ray spectrometers; electron spin resonance spectroscopy of free radicals in carcinogenic and irradiated compounds; the measurement of radiation by calorimetric, radiation-chemical ionization, crystal and solid-state detectors; study of the early radiation-induced processes in cells using high intensity pulsed irradiation techniques.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

PATHOLOGY

GILBERT DALLDORF, Professor of Pathology
FRANK W. FOOTE, JR., Professor of Pathology
FRED W. STEWART, Professor of Pathology, Emeritus

JØGEN E. FOGH, Associate Professor of Pathology
LEOPOLD G. KOSS, Associate Professor of Pathology
STEPHEN S. STERNBERG, Associate Professor of Pathology

JOHN W. BERG, Assistant Professor of Pathology
CHARLES P. MILES, Assistant Professor of Pathology

Research Associates:

Robert V. P. Hutter

Myron R. Melamed

Special facilities are available for investigation in quantitative cytology and cellular pathology by newer optical methods, cytophysical methods including radioautography, electron microscopy, ultraviolet and fluorescent microscopy. A regular part of the functions of this department include examinations of the pathologic effects of potential cancer chemotherapeutic agents in laboratory animals.

Study in this department is limited to persons who hold a medical degree and whose experience includes two years of general pathology.

PREVENTIVE MEDICINE

LEO WADE, Associate Professor of Preventive Medicine
ERNEST L. WYNDER, Associate Professor of Preventive Medicine
GENEVIEVE M. BADER, Assistant Professor of Preventive Medicine

Research Associate:

Elaine G. Diacumakos

The department offers opportunities for research in human genetics and in the epidemiology of cancer. Research and training can also be arranged in the laboratory aspects of the biological testing and chemical analysis of environmental agents. Programs in these fields can be organized with the appropriate members of the department.

Prerequisites are a degree in medicine or advanced training and experience in the field concerned.

INTERNSHIP APPOINTMENTS*

CLASS OF 1964

Acosta, Jerry L.	Surg.	The New York Hospital, New York, N.Y.
Adams, John E.	Med.	Vanderbilt University Hospital, Nashville, Tenn.
Bernstein, James E.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Bettman, Jerome W., Jr.	Mx.	San Francisco General, San Francisco, Calif.
Blumenschein, Sarah D.	Ped.	Bellevue Hospital, 3rd Division, New York, N.Y.
Cady, Paxton	Rot.	Mount Zion Hospital, San Francisco, Calif.
Campbell, William L.	Med.	University Hospital, Ann Arbor, Mich.
Capone, Robert J.	Med.	Vanderbilt University Hospital, Nashville, Tenn.
Cappiello, David L.	Surg.	St. Vincent's Hospital, New York, N.Y.
Catino, Donald	Mx-Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Cohen, David N.	Med.	University of Utah Affiliated Hosp., Salt Lake City
Coletti, John M., Jr.	Surg.	The New York Hospital, New York, N.Y.
Dahl, Bernhoff A.	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Davis, Stephen I.	Surg.	University Hospital, Ann Arbor, Mich.
Drusin, Lewis M.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Dudding, Burton A. II	Ped.	University of Minnesota Hospital, Minneapolis, Minn.
Dunn, Bruce E.	Rot.	Army (Tripler), Honolulu, Hawaii
Early, Nanci-Ames	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Engelsing, Thomas M. J.	Rot.	Mount Zion Hospital, San Francisco, Calif.
English, John T., Jr.	Med.	Presbyterian-St. Luke's Chicago, Ill.
Follansbee, John N.	Rot.	Walter Reed General Hospital, Washington, D.C.
Fowler, Hilton L.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Friedman, Newton J.	Rot.	San Francisco General, San Francisco, Calif.
Gershon, Elda Anne A.	Ped.	The New York Hospital, New York, N.Y.
Golosow, Nikolas	Surg.	The New York Hospital, New York, N.Y.
Gordin, David K.	Surg.	Cincinnati General Hospital, Cincinnati, Ohio
Granato, John J., Jr.	Surg.	Albany Medical Center, Albany, N.Y.
Grode, Marshall L.	Surg.	Bellevue Hospital, 2nd Division, New York, N.Y.
Hait, Merritt R.	Mx-Med.	Roosevelt Hospital, New York, N.Y.
Hatfield, Philip M.	Mx-Med.	University Hospitals, Madison, Wisc.
Hayes, Arthur H., Jr.	Med.	The New York Hospital, New York, N.Y.
Heimbach, David M.	Surg.	Parkland Memorial Hospital, Dallas, Texas
Jackson, Daniel L.	Ped.	Baltimore City Hospitals, Baltimore, Md.
Judy, Frances J.	Rot.	Good Samaritan Hospital, Portland, Oregon
Keeley, Kim A.	Mx-Med.	Roosevelt Hospital, New York, N.Y.
Keith, Thomas B.	Med.	University of Utah Affiliated Hospitals, Salt Lake City
Klein, Otto G., Jr.	Rot.	King County Hospital, Seattle, Washington
Knopp, Robert H.	Med.	Boston City Hospital, 2nd and 4th Divisions, Boston
La Gasse, David J.	Surg.	Vanderbilt University Hospital, Nashville, Tenn.
Lennon, Richard G.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Lesser, Isaac L.	Mx-Psych.	Upstate Medical Center, Syracuse, N.Y.
Levi, Louis D.	Med.	Peter Bent Brigham Hospital, Boston, Mass.
Mangold, Karl G.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Marx, Nola R.	Ped.	Bronx Municipal Hospital Center, New York, N.Y.
Middleton, Victoria A.	Rot.	Chicago Wesley Memorial Hospital, Chicago, Ill.
Miller B. Sumter	Med.	University Hospital & Hillman Clinic, Birmingham, Ala.
Miller, James M.	Ped.	Colorado General Hospital, Denver, Colo.
Miscall, Brian G.	Surg.	The New York Hospital, New York, N.Y.
Morrison, John B.	Rot.	Los Angeles County Hospital, Unit 1, Los Angeles, Calif.
Mott, Kenneth E.	Mx-Med.	University of Maryland Hospital, Baltimore, Md.

O'Leary, Dennis S.	Med.	University of Minnesota Hospital, Minneapolis, Minn.
Raymond, Lawrence W.	Med.	Georgetown University Hospital, Washington, D.C.
Reid, Robert H.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Riegel, Byron W.	Rot.	King County Hospital, Seattle, Wash.
Ringland, Joseph E.	Med.	Genesee Hospital, Rochester, N.Y.
Robbins, Richard M.	Rot.	U.S. Naval Hospital, Great Lakes, Ill.
Robischon, William H.	Med.	Genesee Hospital, Rochester, N.Y.
Rodi, Michael F.	Rot.	Harbor General Hospital, Torrance, Calif.
Ross, Stephen A.	Med.	Grace-New Haven Community Hosp., New Haven, Conn.
		Harbor General Hospital, Torrance, Calif.
Rounds, Jack S., Jr.	Rot.	University Hospitals of Cleveland, Cleveland, Ohio
Sabo, Richard R.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Schmidt, Robert M.	Surg.	King County Hospital, Seattle, Wash.
Schrock, Robert D., Jr.	Rot.	Parkland Memorial Hospital, Dallas, Texas
Schwartz, Michael N.	Rot.	University of Utah Affiliated Hosp., Salt Lake City
Schweizer, Frederick W.	Rot.	Johns Hopkins University Hospital, Baltimore, Md.
Segre, Gino V.	Med.	University of Calif. Hospitals, San Francisco, Calif.
Sellman, John R.	Surg.	Bellevue Hospital, 2nd Division, New York, N.Y.
Serlin, Philip B.	Med.	University of Minnesota Hospital, Minneapolis, Minn.
Shope, Thomas C.	Ped.	Bellevue Hospital, 2nd Division, New York, N.Y.
Smith, Barton L.	Med.	Johns Hopkins University Hospital, Baltimore, Md.
Spivak, Jerry L.	Med.	The New York Hospital, New York, N.Y.
Steinberg, Charles R.	Med.	Buffalo General Hospital, Buffalo, N.Y.
Thomson, Jane B.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Tyler, Peter D.	Surg.	The New York Hospital, New York, N.Y.
Van der Decker, John D.	Med.	Kings County Hospital Center, New York, N.Y.
Van Putten, Theodore	Mx-Med.	Vanderbilt University Hospital, Nashville, Tenn.
Vaughan, Thomas R., Jr.	Med.	The New York Hospital, New York, N.Y.
Wadler, Gary I.	Med.	Harrisburg Hospital, Harrisburg, Pa.
Wilcox, Winthrop P.	Rot.	San Francisco General, San Francisco, Calif.
Will, George F., Jr.	Rot.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Wilsey, John D.	Surg.	Upstate Medical Center, Syracuse, N.Y.
Wilson, J. Robert	Mx-Med, Ped.	Roosevelt Hospital, New York, N.Y.
Wilson, Robert L.	Mx-Surg.	The New York Hospital, New York, N.Y.
Woodruff, Judith J.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Ziegler, John L.	Med.	

* Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

REGISTER OF STUDENTS, 1964-1965

FOURTH YEAR

Jonathan Lowey Adler, A.B. 1961, Colgate University
 Stephen Barry Alberg, A.B. 1961, Oberlin College
 James Paul Baden, A.B. 1961, Cornell University
 Carl Bancoff, A.B. 1960, Cornell University
 Bruce Ryan Bistrian, B.A. 1961, New York University
 Joseph Anthony Boccia, A.B. 1961, St. Peter's College
 Peter Frederick Bourlier, A.B. 1961, Georgetown University
 John Joseph Caronna, B.A. 1961, Fordham University
 Phillip John Catanzaro, B.S. 1961, St. Peter's College
 Barry Allan Cohen, B.A. 1961, Cornell University
 Lawrence Cohen, B.S. 1957, United States Naval Academy
 James Norman Davis, B.A. 1961, Cornell University
 David Tappen Dennis, A.B. 1961, Whitman College
 Joseph David Dickerman, A.B. 1960, Johns Hopkins University
 Richard Frederick Dietz, B.S. 1961, Georgetown University
 Edward John Eberhard, B.S. 1959, United States Military Academy
 Rudolph Henry Ehrensing, B.S. 1961, University of Notre Dame
 Anton Farny Eilers, B.S. 1960, University of Wyoming
 Richard Andrew Ellison, B.S. 1961, St. Lawrence University
 Michael John Errico, B.A. 1961, Yale University
 Karl Eurenus, A.B. 1960, Cornell University
 Edmund Francis Fallon, A.B. 1961, Providence College
 James Russell Farina, B.A. 1961, University of Minnesota
 Gerald David Fischbach, B.A. 1960, Colgate University
 Nicholas John Fortuin, A.B. 1961, Columbia University
 Joseph Charles Fratanoni, B.S. 1959, Fordham University;
 A.M. 1961, Harvard University
 Ronald Henry Geiger, A.B. 1961, University of Rochester
 John Spellman Glenn, B.S. 1959, Massachusetts Institute of Technology;
 M.S. 1961, Duke University
 Anthony Allen Goodman, B.A. 1961, Harvard College
 Jeffrey Harold Gordon, B.A. 1961, Amherst College
 Robert Joseph Gottlieb, A.B. 1961, University of Rochester
 Richard Farries Greminger, B.A. 1961, Princeton University
 Richard Luis Guerrero, A.B. 1960, University of Massachusetts
 Robert Edward Gwynn, A.B. 1959, Stanford University
 George Edwin Hardy, Jr., B.A. 1961, Albion College
 Richard Makoto Hirata, B.S. 1958, United States Military Academy
 John Othniel Ives, A.B. 1961, Princeton University
 William Simpson Kammerer, Cornell University
 Gustav Edward Kappler III, B.A. 1961, Cornell University
 Dick Katzin, A.B. 1956, Cornell University
 Jeremy Jon Kaye, B.S. 1961, University of Notre Dame
 Edwin Allen Kayser, Jr., B.A. 1961, Cornell University
 Edgar Jackson Kenton III, B.A. 1961, Rutgers University
 Thomas Edward Kohn, B.A. 1961, Amherst College
 Harold George Kunz, Jr., B.A. 1961, Cornell University
 Robert Philip LaFiandra, A.B. 1961, Columbia University
 Jon Lawson Landeen, B.S. 1961, University of Wyoming
 Lawrence Paul Levitt, B.S. 1961, Queens College
 Laurie Jean Liddil, A.B. 1961, Stanford University
 Kenneth James Lippman, B.A. 1960, Tufts University
 Red Bank, N.J.
 Englewood, N.J.
 Hamilton, Ohio
 Philadelphia, Pa.
 Amagansett, N.Y.
 Brooklyn, N.Y.
 Syracuse, N.Y.
 Jackson Heights, N.Y.
 Jersey City, N.J.
 Scarsdale, N.Y.
 Nyack, N.Y.
 Great Neck, N.Y.
 Portland, Oregon
 New York, N.Y.
 Flushing, N.Y.
 Canton, Ohio
 New Orleans, La.
 Haden Lake, Idaho
 Jackson Heights, N.Y.
 Bloomfield, N.J.
 Wilmington, Del.
 Jackson Heights, N.Y.
 New Buffalo, Mich.
 New Rochelle, N.Y.
 Ridgewood, N.J.
 Brooklyn, N.Y.
 West Milford, N.J.
 Washington, D.C.
 New York, N.Y.
 Albany, N.Y.
 New York, N.Y.
 Cambridge, N.Y.
 Chelmsford, Mass.
 Navoto, Calif.
 Midland, Mich.
 Maui, Hawaii
 Norwalk, Conn.
 Whitestone, N.Y.
 Lake Ronkonkoma, N.Y.
 Maplewood, N.J.
 Rhinelander, Wisc.
 Wilmette, Ill.
 Camden, N.J.
 Milwaukee, Wisc.
 Montclair, N.J.
 New York, N.Y.
 Sheridan, Wyo.
 Bronx, N.Y.
 Cincinnati, O.
 Harrison, N.Y.

Morton Daniel Lynn, A.B. 1961, Dartmouth College	West Orange, N.J.
W. Peter McCabe, A.B. 1961, Harvard College	Providence, R.I.
Irvine Gray McQuarrie, B.A. 1961, University of Utah	Ogden, Utah
Jack Edward Meyer, B.A. 1961, Grinnell College	Davenport, Iowa
Kevin Peter Morrissey, A.B. 1961, Williams College	Jackson Heights, N.Y.
Charles Erik Nye, B.A. 1961, Stanford University	Edmonton, Alberta
Caldwell Hardy Oliver, Jr., B.A. 1961, Yale University	Urbana, Ill.
Michelle Gabrielle Palmieri, A.B. 1961, Mount Holyoke	New York, N.Y.
Deborah Reed Pavan, A.B. 1961, Radcliffe College	Squantum, Mass.
Robert Anthony Pezzulich, A.B. 1961, Cornell University	Clark, N.J.
Lance David Redler, A.B. 1962, Cornell University	Bayside, N.Y.
Lewis Mark Rothman, B.A. 1961, Cornell University	Eastchester, N.Y.
Paul Laurence Samuelson, B.A. 1961, Williams College	Yonkers, N.Y.
Howard Peter Schiele, B.A. 1961, Columbia College	Yonkers, N.Y.
Richard Alan Schwartz, A.B. 1960, Cornell University	Shaker Heights, Ohio
Robert Douglas Schweizer, A.B. 1961, Princeton University	Union, N.J.
Robert Martin Segaul, B.A. 1961, Cornell University	Utica, N.Y.
Joseph Michael Seventko, B.E. 1960, Stevens Institute of Technology	Clifton, N.J.
Steven Hugh Sewall, B.A. 1961, Brown University	West Hartford, Conn.
Stephen Daniel Shappell, A.B. 1961, Columbia University	Yonkers, N.Y.
Dennis Hugh Stephens, B.S. 1962, University of Utah	Ogden, Utah
Richard Philip Stewart, B.A. 1961, Johns Hopkins University	Passaic, N.J.
Thomas Robert Swift, B.A. 1961, Trinity College	Brooklyn, N.Y.
Hillel Isaiah Swiller, B.A. 1961, Cornell University	Brooklyn, N.Y.
Charles Frederick Thurber, B.A. 1961, Colgate University	Valley Stream, N.Y.
Elinor Toaz, B.A. 1961, Wellesley College	Huntington, N.Y.
Frank Anthony Tomao, B.S. 1961, Manhattan College	Staten Island, N.Y.
Robert John Towers, B.S. 1961, University of Utah	Murray, Utah
Peter Tsairis, B.S. 1960, Trinity College	Hempstead, N.Y.
Betty Ann Ward, A.B. 1961, Boston University	Waverly, Pa.
Edward Lloyd Westbrook, B.A. 1961, Harvard College	New York, N.Y.
Donald Wendell Wilson, B.A. 1961, Harvard College	Newton, Mass.
Anne Stone Yeager, B.A. 1961, Cornell University	Baltimore, Md.
Robert Crabill Young, B.Sc. 1961, Ohio State University	Columbus, O.

THIRD YEAR

Carmine Bedotto, A.B. 1962, Brown University	Hallandale, Fla.
Randall William Bell, B.S. 1959, United States Military Academy	Bronx, N.Y.
John Arthur Boothby, A.B. 1962, Cornell University	Wynnewood, Pa.
Paul David Bostrom, A.B. 1962, Princeton University	Dover, N.J.
James Wesley Bryan, B.S. 1962, Stanford University	Mission, Kansas
James Augustine Burns, B.S. 1961, Manhattan College	New York, N.Y.
Laurence David Carnay, A.B. 1962, Hamilton College	New York, N.Y.
Alexander Soutar Carney, A.B., 1962, Yale University	Irvington, N.Y.
John Joseph Carthy, B.S. 1962, Fordham University	New York, N.Y.
Paul Stuart Clark, A.B. 1962, Princeton University	Fayetteville, N.Y.
James Franklin Corcoran, B.S. 1958, United States Military Academy	New York, N.Y.
Robert Emmet Curran, A.B. 1962, College of the Holy Cross	Rockville Centre, N.Y.
Andrew Albert Dahl, A.B. 1962, Wesleyan University	Poughkeepsie, N.Y.
J. Thomas Davidson, A.B. 1962, Colgate University	Grand Rapids, Mich.
Peter John DeBell, A.B. 1962, Oberlin College	Passaic, N.J.
John English Deitrick, Jr., A.B. 1962, Princeton University	Bronxville, N.Y.
John Donovan Denney, A.B. 1962, University of Washington	Everett, Wash.
Michael Henry Dosik, A.B. 1962, Cornell University	New York, N.Y.
Patricia Downs, A.B. 1962, Colby College	Bronxville, N.Y.
Francis Joseph Duggan, Jr., B.S. 1962, Fordham University	Margaretville, N.Y.
Michael Preston Earnest, A.B. 1962, Cornell University	Youngstown, N.Y.
Robert Michael Farrell, B.S. 1962, St. John's University	Flushing, N.Y.
Anthony Stephen Fauci, A.B. 1962, College of the Holy Cross	Brooklyn, N.Y.
Arthur Eugene Fetzer, A.B. 1962, Cornell University	Hartsville, Pa.
Richard Howard Fine, A.B. 1962, Cornell University	Cincinnati, Ohio

- John Edward Franklin, A.B. 1961, Williams College
 David Gray Fraser, A.B. 1962, Stanford University
 Lynn Miller Gaufin, B.S. 1963, University of Utah
 Robert Dennis Geller, B.Met.E. 1962, New York University
 Michael Alan Goodfriend, A.B. 1962, Princeton University
 Robert Michael Gould, B.S. 1962, Rensselaer Polytechnic Institute
 John Richard Graybill, A.B. 1962, Cornell University
 Samuel Harold Greenblatt, B.A. 1961, Cornell University
 Price Griepkoven, B.A. 1962, Williams College
 David Hunt Gundy, A.B. 1962, Dartmouth College
 Robert Lewis Haggerty, A.B. 1962, Bowdoin College
 Francis Joseph Hamilton, Jr., A.B. 1962, Hamilton College
 Ian Morgan Happer, B.S. 1962, University of North Carolina
 Richard Anthony Hodder, A.B. 1962, University of Notre Dame
 Robert Daniel Hoeldtke, B.A. 1962, Amherst College
 Orne Scott Hume, B.S. 1962, Queens College
 Mark Hiram Kaplan, A.B. 1962, Cornell University
 Harry David Kearing, A.B. 1959, Cornell University
 Edward Thomas Lawson, A.B. 1961, Dartmouth College
 Harry George Lee, A.B. 1962, Williams College
 Jay Stauffer Lehman, A.B. 1962, Amherst College
 Stuart Euster Levin, A.B. 1962, Cornell University
 Richard Uscher Levine, B.S. 1962, Tufts University
 Roger Kenneth Lewis, B.A. 1961, University of Florida
 Michael Laurence Lichtig, A.B. 1962, Cornell University
 I. Ira Mason, B.A. 1962, Columbia University
 Herbert Odell Mathewson, A.B. 1962, Cornell University
 James J. McSweeney, Jr., A.B. 1962, Cornell University
 Glenn Adair Meltzer, B.A. 1962, Clark University
 Anthony Wayne Middleton, Jr., B.S. 1963, University of Utah
 Irving William Olender, A.B. 1962, Cornell University
 David Michael Ozonoff, B.S. 1962, University of Wisconsin
 Jacqueline Gail Parthemore, A.B. 1962, Wellesley College
 Arnold Eugene Postlethwaite, A.B. 1962, West Virginia University
 Kenneth Ned Rankin, A.B. 1962, Dartmouth College
 Donald Laurence Resnick, A.B. 1962, Hamilton College
 Morris Mark Richman, A.B. 1962, Cornell University
 Stewart Samuel Richmond, B.A. 1962, Amherst College
 Donald Allen Roberts, B.S. 1962, Washington State University
 Paul Frederick Schelhammer, B.S. 1962, University of Notre Dame
 Carl Frederick Schiller, B.S. 1962, Yale University
 Steven Kalman Secunda, A.B. 1962, Harvard University
 Mark Melvin Sherman, A.B. 1962, Clark University
 Garry Lee Smith, B.S. 1962, University of Oklahoma
 John Quinn Stauffer, A.B. 1962, Princeton University
 Arthur Harold Stein, A.B. 1962, Harvard University
 Susan Cobb Stewart, B.A. 1962, Smith College
 Everett Van Dyke Sugarbaker, B.S. 1962, Wheaton College
 Robert Joseph Sullivan, Jr., A.B. 1962, Colgate University
 Morris Herbert Susman, A.B. 1958, Harvard University
 Gerald Roman Sydorak, A.B. 1963, Cornell University
 Gilbert Carl Thelen, Jr., B.A. 1960, Duke University
 David Neil Tucker, B.S. 1963, Tufts University
 John Chapman Urbaitis, B.S. 1962, Allegheny College
 Laura Ureta, A.B. 1957, Laval University
 John Reed Welch, B.A. 1961, University of Arizona
 John Price Witwer, B.A. 1962, Amherst College
 David Frank Wood, A.B. 1962, Brown University
 Frank James Zlatnik, B.A. 1962, Crelton College
 New York, N.Y.
 New York, N.Y.
 Midvale, Utah
 Beechhurst, N.Y.
 Montrose, N.Y.
 New York, N.Y.
 Abington, Pa.
 Potsdam, N.Y.
 Bronxville, N.Y.
 Rye, N.Y.
 Hackensack, N.J.
 Closter, N.J.
 Lenoir, N.C.
 Yonkers, N.Y.
 Buffalo, N.Y.
 Bethpage, N.Y.
 Brooklyn, N.Y.
 Binghamton, N.Y.
 Tarrytown, N.Y.
 Short Hills, N.J.
 Ardmore, Penn.
 Cincinnati, Ohio
 West Englewood, N.J.
 West Palm Beach, Fla.
 Rumson, N.J.
 Bronx, N.Y.
 Pelham, N.Y.
 Lynn, Mass.
 Worcester, Mass.
 Salt Lake City, Utah
 Amsterdam, N.Y.
 Milwaukee, Wisc.
 Narbeth, Pa.
 New Martinsville, W.Va.
 Cleveland, Ohio
 New Rochelle, N.Y.
 Philadelphia, Pa.
 Concord, N.H.
 Richland, Wash.
 Larchmont, N.Y.
 Hershey, Pa.
 West Newton, Mass.
 Worcester, Mass.
 Tulsa, Okla.
 Petersburg, W.Va.
 Norfolk, Va.
 Cleveland, Ohio
 Jefferson City, Mo.
 San Diego, Calif.
 Denver, Colo.
 New York, N.Y.
 Milwaukee, Wisc.
 Great Neck, N.Y.
 Warren, Pa.
 Queens, N.Y.
 Tucson, Ariz.
 Radnor, Pa.
 Lyons, N.Y.
 Two Rivers, Wisc.

SECOND YEAR

- Robert Powers Ainsworth, B.E. 1962, Yale University
 William John Conrad Amend, Jr., B.A. 1963, Amherst College
 Judith Lois Axelrod, A.B. 1963, Wellesley College
 Robert Joseph Binder, B.A. 1963, Williams College
 Joseph Patrick Bohan, B.S. 1963, Manhattan College
 Richard Joseph Castiello, B.A. 1963, Williams College
 David Rubin Chipkin, B.S. 1963, Dickinson College
 Francis Vincent Chisari, A.B. 1963, Fordham University
 Orlo Herrick Clark, A.B. 1963, Cornell University
 Cal K. Cohn, A.B. 1963, Columbia University
 James John Crossley, A.B. 1963, Princeton University
 Kermit Wayne Dewey, A.B. 1963, Cornell University
 Dean Stuart Edell, A.B. 1963, Cornell University
 Ronald Charles Eggert, A.B. 1963, Dartmouth College
 Albert Brooks Einstein, Jr., A.B. 1963, Princeton University
 Robert Stephan Ennis, A.B. 1963, Columbia University
 Frank Owen Evans, Jr., B.S. 1963, Washington & Lee University
 Yale Lloyd Fisher, A.B. 1964, Cornell University
 Paul Francis Foraste, Jr., B.A. 1962, College of the Holy Cross
 John Halm Galla, B.S. 1958, United States Naval Academy
 John Alan Grossman, A.B. 1963, Princeton University
 Paul Leonard Gunderson, B.S. 1963, Wheaton College
 Sandra Lynn Gustafson, A.B. 1962, Wellesley College
 Charles Hennekens, B.S. 1963, Queens College
 John Jacob Hill, A.B. 1963, San Diego State College
 William Vincent Hindle, Jr., A.B. 1963, Dartmouth College
 Anita Hollmer Hodson, B.S. 1961, M.S. 1963, Cornell University
 William Russel Hunt, A.B. 1963, Harvard University
 Wagdy Maher Kamel, B.S. 1963, St. Peter's College
 Robert Allen Charles Kaye, A.B. 1963, Drew University
 Gerald Thomas Keegan, B.S. 1963, St. Peter's College
 Frederick Karl Kirchner, Jr., B.S. 1963, Dickinson College
 Robert Tulloch Lacy, A.B. 1963, Yale University
 Bruce Malcolm Lidston, B.S. 1963, Lebanon Valley College
 Richard Michael Lumiere, A.B. 1963, Cornell University
 John Leon Marquardt, A.B. 1963, John Carroll University
 Hayes Senyi Martin, B.A. 1962, Brown University
 Kenneth Maurice Matchett, Jr., B.S. 1963, Stanford University
 Ira Mehlman, A.B. 1963, Princeton University
 Kimball Ivan Maull, A.B. 1963, University of Virginia
 Mark Harold Miller, A.B. 1963, Cornell University
 William David Miller, A.B. 1963, Cornell University
 Susan Carol Moss, A.B. 1963, Cornell University
 Richard Stuart Muchnick, A.B. 1963, Cornell University
 Steven Anthony Muller, B.Ch.E. 1963, Cornell University
 Charles Ronald Nicolosi, B.S. 1963, Manhattan College
 Neil Francis O'Donohue, B.S. 1963, Fordham College
 Michael Oliphant, A.B. 1963, Columbia University
 Lawrence William Osborn, B.A. 1963, Amherst College
 David Allan Parker, A.B. 1963, Harvard University
 Charles Alfred Peterson, A.B. 1961, Dartmouth College;
 M.F. 1963, Yale University
 Paul Edwin Pierce, A.B. 1963, Northwestern University
 Rowland Walker Pritchard, A.B. 1962, Dartmouth College
 Robert Paul Radin, B.A. 1962, University of Virginia
 Arthur Charles Rettig, Jr., A.B. 1963, Yale University
 Thomas William Revak, A.B. 1960, Cornell University
 Delbert Glen Ririe, B.S. 1964, University of Utah
 John Patrick Rooney, B.S. 1963, John Carroll University
 Steven Leonard Rosen, A.B. 1963, Harvard University
 William Leslie Rutherford, A.B. 1963, Stanford University
 Columbus, O.
 Wilmington, Del.
 Clinton, Mass.
 West Englewood, N.J.
 New York, N.Y.
 Bethesda, Md.
 Flushing, N.Y.
 Bronxville, N.Y.
 Nutley, N.J.
 New York, N.Y.
 Watertown, N.Y.
 Malone, N.Y.
 New York, N.Y.
 Riverside, Conn.
 Baltimore, Md.
 Whitestone, N.Y.
 Milledgeville, Ga.
 Glen Rock, N.J.
 Scarsdale, N.Y.
 Bridgeport, Conn.
 New York, N.Y.
 Muscatine, Iowa
 Worcester, Mass.
 Flushing, N.Y.
 La Mesa, Calif.
 Cranston, R.I.
 Ithaca, N.Y.
 Poplar, Montana
 Jersey City, N.J.
 Morristown, N.J.
 Jersey City, N.J.
 Delmar, N.Y.
 Denvon, Pa.
 Old Tappan, N.J.
 Dalton, Ga.
 Lakewood, Ohio
 New York, N.Y.
 Grand Junction, Colo.
 Brooklyn, N.Y.
 Union, N.J.
 Meadville, Pa.
 Williamsville, N.Y.
 Flushing, N.Y.
 Brooklyn, N.Y.
 Delmar, N.Y.
 New York, N.Y.
 Brooklyn, N.Y.
 New York, N.Y.
 Shaker Heights, Ohio
 Rochester, N.Y.
 Hamilton, Mont.
 Alton, Ill.
 Stamford, Conn.
 Tuckahoe, N.Y.
 Muncie, Ind.
 Mt. Carmel, Pa.
 Salt Lake City, Utah
 Stamford, Conn.
 Brighton, Mass.
 Peoria, Ill.

Christopher Dyer Saudek, A.B. 1963, Harvard University
 Donald Allen Schlernitzauer, A.B. 1963, Cornell University
 Robert Gary Schwager, A.B. 1963, University of Virginia
 Philip Edward Schweitzer, A.B. 1963, College of the Holy Cross
 Robert Willard Scott, B.S. 1963, Ohio State University
 Stephen Robert Severance, Cornell University
 John Henry Shenasky II, A.B. 1963, Cornell University
 Bruce Duncan Simonds, B.S. 1963, Cornell University
 William Patrick Soles, A.B. 1963, University of Utah
 Frederick Peter Spin, A.B. 1963, Columbia University
 William Robert Stiles, A.B. 1963, Harvard University
 Paul Hendrick Sugarbaker, B.S. 1963, Wheaton College
 Mark Lewis Teitelbaum, B.A. 1963, Williams College
 George Gregory Telesh, A.B. 1963, Cornell University
 John Michael Thorp, B.S. 1962, University of Rhode Island
 Edward Tsou, A.B. 1963, Rutgers University
 Anthony Paul Turel, Jr., A.B. 1963, Cornell University
 George Michael Uhran, B.S. 1963, Fordham University
 Nicholas Joseph Vianna, B.S. 1963, St. Peter's College
 H. James Wedner, A.B. 1963, Cornell University
 Burton Carey West, B.A. 1963, Amherst College
 James Burnham Wirth, A.B. 1963, Cornell University
 Dennis Watkins Wise, B.S. 1961, Wheaton College
 Russell Rudolph Zelko, A.B. 1962, Cornell University

Bronxville, N.Y.
 Bellaire, Ohio
 Brooklyn, N.Y.
 Pelham, N.Y.
 Scarsdale, N.Y.
 Brecksville, Ohio
 Clarksburg, W.Va.
 Beloit, Wis.
 Oren, Utah
 Brooklyn, N.Y.
 Evanston, Ill.
 Jefferson City, Mo.
 Hewlett, N.Y.
 Clifton, N.J.
 Centerdale, R.I.
 New York, N.Y.
 Kingston, Pa.
 Flushing, N.Y.
 New York, N.Y.
 Pittsburgh, Pa.
 New York, N.Y.
 New Milford, N.J.
 Warren, Ohio
 Bethlehem, Pa.

FIRST YEAR

Edward Philip Ambinder, A.B. 1964, Princeton University
 Arnold Elle Andersen, A.B. 1964, Cornell University
 Jeffrey Mark Applestein, A.B. 1964, Duke University
 Gabrielle Arakelian, B.A. 1964, Wellesley College
 Oreste Joseph Arcuni, B.S. 1964, Fordham College
 Michael Stuart Balis, Franklin & Marshall College
 Alfred Sidney Barritt III, A.B. 1964, College of the Holy Cross
 Joseph Victor Battista, Jr., A.B. 1964, Princeton University
 Robert Forrest Bedford, A.B. 1964, Princeton University
 George Ellis Berkowitz, A.B. 1964, Princeton University
 Eugene Knott Bierhorst, A.B. 1964, Columbia University
 Thomas Dwight Bird, A.B. 1964, Dartmouth College
 William Warner Brockman, B.S. 1964, Cornell University
 Stuart Tait Brown, A.B. 1964, Dartmouth College
 Donald Lyle Buehler, A.B. 1964, Stanford University
 David Hoogner Calder, A.B. 1964, Dartmouth College
 Harold Ernest Carlson, B.S. 1964, Rensselaer Polytechnic Institute
 Arlan Avrom Cohen, B.A. 1964, Columbia University
 Robert Chaplin Collins, B.A. 1964, University of California at Los Angeles
 George Cooper IV, B.A. 1964, Williams College
 Lois Jacqueline Copeland, A.B. 1964, Cornell University
 Anthony Gaetano Coscia, B.S. 1964, Fordham University
 John Thomas Daly, B.S. 1964, Manhattan College
 James Henry Dauber, B.E.P. 1964, Cornell University
 Steven Allen Dressner, B.A. 1964, Gettysburg College
 Enohong Asukwo Ekong, A.B. 1964, Wittenberg University
 Howard Lee Feldman, A.B. 1964, Princeton University
 John Emerson Feldmann, B.S. 1964, Georgetown University
 Paul Robert Goldstein, A.B. 1964, Cornell University
 Edward Leo Goodman, A.B. 1964, Cornell University
 Jerold Bruce Graff, A.B. 1964, Princeton University
 David Greene, A.B. 1964, Colby College
 Michael Thomas Gyves, B.S. 1964, Fordham University
 James Bradley Haddock, B.S. 1964, Bowdoin College
 Robert Port Herwick, Jr., A.B. 1964, Cornell University

Bronxville, N.Y.
 Brooklyn, N.Y.
 Trenton, N.J.
 New Canaan, Conn.
 New York, N.Y.
 Maplewood, N.J.
 Brooklyn, N.Y.
 Mountain Lakes, N.J.
 Mountain Lakes, N.J.
 Philadelphia, Pa.
 Cincinnati, Ohio
 Lancaster, Pa.
 Dobbs Ferry, N.Y.
 Lemont, Ill.
 Fremont, Calif.
 Wyckoff, N.J.
 Falconer, N.Y.
 Brooklyn, N.Y.
 Los Angeles, Calif.
 Charlottesville, Va.
 Woodcliff Lake, N.J.
 New York, N.Y.
 New York, N.Y.
 Ithaca, N.Y.
 Great Neck, N.Y.
 Uyo, E. Nigeria
 Plainfield, N.J.
 West Orange, N.J.
 New York, N.Y.
 Columbus, Ohio
 Verona, N.J.
 New York, N.Y.
 New York, N.Y.
 Auburn, Maine
 Basking Ridge, N.J.

Sidney Heumann, A.B. 1964, Columbia University	Brooklyn, N.Y.
Stuart Holden, B.S. 1964, University of Wisconsin	Freeport, N.Y.
Alfred Louis Horowitz, A.B. 1964, Dartmouth College	Chicago, Ill.
Creig Simmons Hoyt, B.A. 1964, Amherst College	Pittsburgh, Pa.
Stephen Lee Jaffe, B.A. 1964, Purdue University	Scarsdale, N.Y.
Leland Paul Johnson, B.A. 1964, University of Utah	Salt Lake City, Utah
Henry Jerrold Kaplan, A.B. 1964, Columbia University	New York, N.Y.
Robert Mace Kass, B.A. 1964, Kenyon College	Woodmere, N.Y.
Robert Van Allen Ketchum, A.B. 1964, Cornell University	Forst Hills, N.Y.
William Claude Klingensmith III, A.B. 1964, Cornell University	New Kensington, Pa.
James Howard Kocsis, B.A. 1964, Amherst College	Harwinton, Conn.
Robert Edmunds Kochler, Jr., B.A. 1964, Johns Hopkins University	Bernardsville, N.J.
Donald Eugene Kubit, A.B. 1964, Dartmouth College	Cleveland, Ohio
Katherine Stanton Lane, B.A. 1964, Trinity College	Westfield, N.J.
John Walter Larsen, A.B. 1964, Dartmouth College	Haworth, N.J.
Michael Martin Lewis, B.A. 1964, Tufts University	Great Neck, N.Y.
David Peter McCormick, A.B. 1964, Harvard University	Watertown, N.Y.
William Scott McDougal, A.B. 1964, Dartmouth College	Grand Rapids, Mich.
John Edward Madsen, Jr., A.B. 1964, University of North Carolina	Plainfield, N.J.
Robert Steven Marcus, A.B. 1964, Columbia University	New York, N.Y.
Ellen Elizabeth Marks, Cornell University	Wallingford, Pa.
John George Meharg, Jr., B.A. 1964, Amherst College	Wyomissing, Pa.
Ruth Dowling Newman, A.B. 1964, Radcliffe College	Washington, D.C.
Allen Abbe Nimetz, A.B. 1964, Cornell University	Washington, D.C.
Leonard Monell Olmsted, Jr., B.S. 1964, Rutgers University	South Orange, N.J.
Joan Louise Page, A.B. 1964, Cornell University	Dayton, Ohio
Steve Richard Piczenik, A.B. 1964, Cornell University	New York, N.Y.
Ronald Scott Rankin, A.B. 1964, Drew University	Bernardsville, N.J.
Carl Eric Ravin, A.B. 1964, Cornell University	Bethesda, Md.
Paul Eugene Reading, Jr., A.B. 1964, Cornell University	Painesville, Ohio
Robert William Reidy II, A.B. 1964, Dartmouth College	Albuquerque, N.M.
John Harger Roediger, B.S.E.E. 1964, Duke University	Westfield, N.J.
John Gerard Rose, B.S. 1964, Fordham University	Valley Stream, N.Y.
Charles David Semel, B.A. 1964, Drew University	Haskell, N.J.
David Hayden Slepian, A.B. 1964, Cornell University	Highland Park, Ill.
Robert David Stolorow, A.B. 1964, Harvard University	Birmingham, Mich.
Ray Merrill Thorpe, A.B. 1964, Stanford University	Modesto, Calif.
John Joseph Vecchione, B.S. 1964, Yale University	Windsor Locks, Conn.
Robert Scofield Walker, A.B. 1964, Cornell University	Chaplin, Conn.
Jack Waxman, B.S. 1964, City College of New York	Bronx, N.Y.
William Richard White, B.A. 1964, College of the Holy Cross	Bronxville, N.Y.
Bruce George Wilbur, B.S. 1964, Providence College	Scarsdale, N.Y.
John Buckner Winfield, B.A. 1964, William College	Williamstown, Mass.
John Charles Wolfe, A.B. 1964, Stanford University	Arcadia, Calif.
David Ray Wood, B.S. 1964, University of Utah	Salt Lake City, Utah
Charles Victor Wylie, B.S. 1964, University of Utah	Salt Lake City, Utah
Robert F. Zager, A.B. 1964, Cornell University	East Patterson, N.J.
Stephen Arnold Zendel, A.B. 1964, New York University	Eastchester, N.Y.

SUMMARY

Fourth Year	84
Third Year	84
Second Year	85
First Year	83
Total	336

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

ABBOTT, JOSEPH A.	Medicine	61
ABEL, DONALD W.	Surgery	83
ABEL, HENRIETTA E.	Medicine	60
ABEL, ROBERT R.	Medicine	60
ABELLO, EMILIO G., Jr.	Medicine	61
ABRAHAMS, IRVING	Microbiology	64
ABROMS, GENE M.	Psychiatry	75
ACCHIARDO, SERGIO	Medicine	61
ADAMS, DANIEL W.	Obstetrics & Gynecology	65
ADAMS, IRENE	Medicine	61
ADELSON, EDWARD T.	Psychiatry	75
ADLER, JOEL B.	Surgery	82
ADVOCATE, SEYMOUR	Medicine	58
AKBARI, AHKAD	Surgery	82
ALBRECHT, ALBERTA M.	Sloan-Kettering (Biology)	97
ALEXANDER, JAMES S.	Pediatrics	70
ALLEN, FRED H.	Pediatrics	69
ALMY, THOMAS P.	Medicine	57
ANDERSON, ARTHUR F.	Pediatrics (Emeritus)	6
ANDERSON, ARTHUR A.	Psychiatry	75
ANDERSON, GERALD A.	Obstetrics & Gynecology	65
ANDERSON, WILLIAM A.	Medicine	60
ANTOVILLE, ANTHONY A.	Medicine	58
APPLEBAUM, JACOB	Surgery	82
ARBOIT, JOAN M.	Pediatrics	70
ARCE, A. ANTHONY	Psychiatry	75
ARCHIBALD, KENNETH C.	Medicine	50
ARCURI, JOSEPH	Psychiatry	75
ARDITI, LUCIAN I.	Medicine	60
ARLEN, MYRON	Surgery	84
ARMISTEAD, GEORGE C.	Medicine	58
ARMSTRONG, RODERICK A.	Psychiatry	75
ARNOLD, WILLIAM D.	Surgery	82
ARTUSIO, JOSEPH F., Jr.	Surgery; Obstetrics & Gynecology	80; 64
ASAPH, JAMES W.	Surgery	83
ASCH, THANE	Anatomy; Radiology	54; 79
ASHE, BARBARA S.	Pediatrics	70
ASHMAN, STUART	Psychiatry	75
ASKARI, AMIR	Pharmacology	72
ATKINSON, SAM C.	Medicine	58
AULD, PETER A. McF	Pediatrics	70
AUSTLID, OLAV	Medicine	58
AVNET, SAMUEL	Surgery	82
AXELROD, D. ROBERT	Physiology	73
BACH, FRITZ H.	Medicine	61
BADER, GENEVIEVE	Sloan-Kettering (Prev. Med.)	98
BADER, SAUL	Anatomy	54
BAER, RALPH A.	Medicine	60
BAKER, RALPH D.	Psychiatry	75
BALASZ, LESLIE L.	Surgery	83
BALENSWEIG, HOWARD D.	Surgery	82

BALIS, M. EARL	Sloan-Kettering (Biochemistry)	96
BANG, NILS U.	Medicine	58
BARAS, IRVING	Surgery	81
BARASCH, KENNETH R.	Surgery	83
BARAGRY, RICHARD A.	Surgery	82
BARBER, HUGH R. K.	Obstetrics & Gynecology	65
BARCLAY, RALPH K.	Sloan-Kettering (Biochemistry)	96
BARILE, RAYMOND G.	Surgery	82
BARNES, LLOYD T.	Medicine	58
BARNES, WILLIAM A.	Surgery	81
BARNETT, CLIFFORD R.	Public Health	77
BARONDESS, JEREMIAH A.	Medicine	57
BARR, DAVID P.	Medicine (Emeritus)	6
BASILE, NEAF K.	Obstetrics & Gynecology	65
BASS, RICHARD R.	Pediatrics	70
BAUER, CHARLES H.	Pediatrics	70
BAUER, GORAN C. H.	Surgery	80
BAUMGARTNER, LEONA	Pediatrics; Public Health	69; 77
BAXTER, JAMES E.	Psychiatry	75
BAYLOR, CURTIS H.	Medicine	58
BEAVER, WILLIAM T.	Pharmacology	72
BECKER, CARL G.	Pathology	68
BECKER, DAVID V.	Medicine; Radiology	57; 79
BECKER, E. LOVELL	Medicine	57
BEECHWOOD, EMORY C.	Medicine	61
BEHRMAN, STANLEY J.	Surgery	81
BEIL, ARTHUR R., JR.	Surgery	82
BELL, BERTRAND M.	Medicine	60
BENDICH, AARON	Sloan-Kettering (Biochemistry)	96
BENEVENTI, FRANCIS A.	Surgery	81
BENJAMIN, BRY	Medicine	58
BENNETT, DOROTHEA	Anatomy	54
BENUA, RICHARD S.	Medicine	58
BERENBERG, SAMUEL R.	Public Health; Pediatrics	77; 69
BERESFORD, H. RICHARD	Medicine	61
BERG, JOHN W.	Sloan-Kettering (Pathology)	98
BERGLAND, RICHARD M.	Surgery	82
BERNSTEIN, JAMES S.	Medicine	60
BERNSTEN, CARL A.	Medicine	58
BERRETT, ARNOLD	Radiology	79
BETTIGOLE, RICHARD E.	Medicine	60
BIEDLER, JUNE L.	Sloan-Kettering (Biology)	97
BIEL, LEONARD, JR.	Surgery	82
BIENENSTOCK, HARRY	Medicine	60
BIGELOW, LLEWELLYN B.	Psychiatry	75
BILLO, OTTO E.	Pediatrics	70
BINFORD, ROBERT T.	Medicine	61
BIPPART, CHARLES H.	Obstetrics & Gynecology	65
BIRNBAUM, STANLEY J.	Obstetrics & Gynecology	65
BLITZ, MARVIN B.	Psychiatry	75
BLUM, MORTON	Medicine	61
BLUMENSCHNEN, GEORGE R.	Medicine	61
BODANSKY, OSCAR	Sloan-Kettering (Biochemistry)	96
BODDY, FRANCIS A.	Medicine	60
BONSNES, ROY W.	Biochemistry; Obs. & Gyn.	56; 65
BOOIER, ROBERT J.	Surgery	83
BORENFREUND, ELLEN	Sloan-Kettering (Biochemistry)	96
BORIS, MARVIN	Pediatrics	70
BORRISON, RICHARD A.	Anatomy	54
BOROVAC, DRAGAN	Surgery	82
BORTIN, AARON W.	Medicine	60
BOWDEN, LEMUEL	Surgery	84
BOYAN, PAUL	Surgery	83

BOYNTON, PERRY S., JR.	Obstetrics & Gynecology	65
BRACHFELD, NORMAN	Medicine	58
BRANCHEY, MARC M.	Psychiatry	75
BRANDA, LUIS A.	Biochemistry	56
BRANDER, JEROME H.	Obstetrics & Gynecology	65
BRANWOOD, A. WHITLEY	Pathology	68
BRASFIELD, RICHARD J.	Surgery	84
BRAUNSTEIN, PAUL W.	Surgery	81
BRAVEMAN, WARREN S.	Medicine	60
BRAYTON, ROBERT G.	Medicine	60
BRERETON, WILLIAM F., JR.	Medicine	61
BRESLOW, ESTHER	Biochemistry	56
BRETHWAITE, SAMUEL H., JR.	Medicine	60
BREWSTER, HOLLISTER P.	Medicine	61
BRICE, MITCHELL II	Surgery	82
BRILLIANT, RENEE M.	Pediatrics	70
BROCKUNIER, ALFRED, JR.	Obstetrics & Gynecology	65
BRODMAN, KEEVE	Medicine	59
BRONSTEIN, EUGENE L.	Radiology	79
BRONZAFT, ARLINE	Psychiatry	76
BROOKS, DANA C.	Anatomy	54
BROWN, GEORGE B.	Sloan-Kettering (Biochemistry)	96
BROWN, H. OLIVER, JR.	Medicine	60
BROWN, JAMES W.	Psychiatry	75
BROWN, JOHN LYMAN	Medicine	60
BROWN, VERONICA	Medicine	59
BROWNE, MICHAEL	Surgery	82
BROWNE-MAYERS, ALBERT	Psychiatry	75
BRUNETTI, PIER	Psychiatry	75
BRUCK, ROBERTA M.	Anatomy	54
BRUNSCHWIG, ALEXANDER	Surgery	83
BRUSH, A. LOUISE	Psychiatry	75
BUCHANAN, J. ROBERT	Medicine	59
BUCHANAN, MARY C.	Pediatrics	70
BUCHMAN, MYRON I.	Obstetrics & Gynecology	65
BURBANK, BERNERD H.	Medicine	60
BURCHENAL, JOSEPH H.	Medicine	57
BURKHARDT, EDWARD A.	Medicine	59
BURKHOLDER, PETER M.	Pathology	68
BURNETT, HARRY W.	Radiology	79
BURNS, ROSALIE A.	Medicine	60
BURSTEIN, CHARLES	Surgery	81
BYCK, WALTER	Radiology	79
CAHAN, WILLIAM G.	Surgery	83
CALLAHAN, EDWARD W.	Medicine	61
CALLAHAN, JUSTIN T.	Obstetrics & Gynecology	65
CALLIPARI, FRANK B.	Surgery	84
CAMARDA, ANTHONY	Surgery	82
CAMERON, DONALD J.	Medicine	60
CAMPBELL, ROLLA D., JR.	Surgery	81
CANALE, VIRGINIA C.	Pediatrics	70
CANTER, NORMAN M.	Surgery	84
CAPLAN, ROBERT	Surgery	83
CAPPUCCINO, JAMES G.	Sloan-Kettering (Biology)	97
CAREY, THOMAS I.	Surgery	82
CARLSON, ARTHUR S.	Pathology	68
CARLSON, ERIC T.	Psychiatry	74
CARMICHAEL, D. ERSKINE	Obstetrics & Gynecology	65
CARPENTER, CHARLES W.	Surgery	83
CARPENTER, WALTER T.	Pediatrics	70
CARR, HENRY A.	Medicine	57
CARRE, AURELIEN	Surgery	83
CARSON, ROBERT S.	Psychiatry	75

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CARVER, SUSAN T.	Medicine	59
CASH, WILLIAM D.	Biochemistry	56
CASSELL, ERIC	Medicine; Public Health	60; 77
CATLIN, DANIEL	Surgery	83
CATTELL, MCKEEN	Pharmacology (Emeritus)	6
CAVALIERI, LIEBE F.	Sloan-Kettering (Biochemistry)	96
CAVERO, RAFAEL S.	Surgery	83
CECIL, RUSSELL L.	Medicine (Emeritus)	6
CELIAN, CHARLES I.	Psychiatry	75
CERRULI, REMO	Psychiatry	75
CHAN, WAH-YIP	Biochemistry	56
CHARASH, LEON I.	Pediatrics	70
CHAVES, AARON D.	Medicine; Public Health	59; 77
CHILMAN, JOHN H.	Psychiatry	75
CHRETIEN, PAUL B.	Surgery	84
CHRISTENSON, WILLIAM N.	Medicine	59
CHU, FLORENCE CHIEN-HWA	Radiology	79
CHYNN, KUO YORK	Radiology	79
CIPOLLARO, ANTHONY C.	Medicine (Dermatology)	57
CLAREMONT, HUGH E.	Medicine	60
CLARK, DONALD G. C.	Surgery	84
CLARK, MELVA A.	Medicine	60
CLARKE, ROBERT L.	Surgery	82
CLARKSON, BAYARD D.	Medicine	59
CLAYSON, DAVID M.	Psychiatry	75
CLIFFORD, GEORGE O.	Medicine	57
CLIFFTON, EUGENE E.	Surgery	81
COATS, EDWARD C.	Surgery	82
COBB, JOHN R.	Surgery (Orthopedics)	81
COBB, KATHARINE	Pediatrics	70
COCKE, WILLIAM M., Jr.	Surgery	82
CODINGTON, JOHN F.	Sloan-Kettering (Biochemistry)	96
COHEN, BURTON D.	Medicine	60
COHEN, EUGENE J.	Medicine	57
COLE, JOHN T.	Obstetrics & Gynecology	65
COLLIER, ROBERT	Medicine	61
COLLINS, HARVEY S.	Medicine	59
CONN, JULIUS, JR.	Surgery	83
CONNOLLY, C. STEPHEN	Medicine	60
CONROY, MICHAEL M.	Surgery	82
CONSTANTINE, ELIZABETH F.	Surgery	82
CONWAY, HERBERT	Surgery	80
COOMBS, FRANCIS P.	Medicine	61
COONEY, MARY E.	Surgery	82
COOPER, HOWARD N.	Psychiatry	75
COOPER, WILLIAM	Surgery (Orthopedics)	81
COOPER, WILLIAM A.	Surgery	81
COREY, KARIN R.	Sloan-Kettering (Biophysics)	97
CORMIA, FRANK E.	Medicine (Dermatology)	57
CORNELL, GEORGE N.	Surgery	81
CORSELLO, PHILIP	Medicine	61
CORTESE, ARMAND	Surgery	83
COX, DENTON S.	Medicine	61
CRAMER, JEAN ABEL	Medicine	61
CRAVER, LLOYD F.	Medicine (Emeritus)	6
CRAWFORD, DAVID D., JR.	Obstetrics & Gynecology	65
CRILL, WAYNE E.	Medicine	61
CRISSEY, ELEANOR	Psychiatry	75
CUDMORE, RUTH	Pediatrics	70
CUMMINS, F. MITCHELL	Radiology	79
CUPIAUOLI, RICHARD A.	Medicine	61
CURRARINO, GUIDO	Radiology	79
DALLDORF, GILBERT	Sloan-Kettering (Pathology)	98

DALY, ROBERT	Psychiatry	75
DANGEIMAJER, RUDOLPH C.	Surgery	82
DANIELS, FARRINGTON, JR.	Medicine (Dermatology)	57
DANIELLS, HELEN E.	Psychiatry	75
DANLEY, ROBERT A.	Psychiatry	75
DANN, MARGARET	Pediatrics	69
DARGEON, HAROLD W. K.	Pediatrics (Emeritus)	6
DA SILVA, JOSE A. FIGUEIRA	Medicine	61
DARRIGAN, THOMAS M.	Surgery	83
DAVIDSON, RICHARD A.	Surgery	83
DAVIS, E. WILLIAM	Obstetrics & Gynecology	65
DAVIS, JEFF	Medicine	61
DAVIS, MARION	Medicine	61
DAVIS, MILTON S.	Medicine	61
DAVIS, ROBERT V., JR.	Surgery	83
DE ALVARADO, LOIS	Psychiatry	75
DEANS, ROBERT D.	Surgery	82
DEDDISH, MICHAEL R.	Surgery	83
DEEP, ANTHONY	Obstetrics & Gynecology	65
DE GARA, PAUL F.	Medicine; Pediatrics	59; 69
DEGNAN, WALTER	Medicine	61
DE HARVEN, ETIENNE	Sloan-Kettering (Biology)	96
DEITRICK, JOHN E.	Medicine; Dean	57; 4
DE MAYO, ALAN P.	Pediatrics	70
DE NESNERA, PETER	Medicine	61
DENKER, PETER G.	Medicine (Neurology)	59
DENNEN, EDWARD H.	Obstetrics & Gynecology	64
DE PALO, ANGELO J.	Surgery	84
DESCHNER, ELEANOR	Medicine; Radiology	61; 79
DEUTSCHER, ROBERT N.	Medicine	61
DIACUMAKOS, ELAINE G.	Sloan-Kettering (Prev. Med.)	98
DIAMOND, MONROE T.	Medicine	61
DICKERMAN, ROBERT W.	Microbiology	64
DIEHL, CAROLYN H.	Medicine	61
DIETHELM, ARNOLD G.	Surgery	82
DIETHELM, OSKAR	Psychiatry (Emeritus)	6
DI LEO, JOSEPH H.	Pediatrics	70
DILLON, THOMAS F.	Obstetrics & Gynecology	65
DI LORENZO, JAMES D.	Surgery	84
DINEEN, PETER	Surgery	81
DOHERTY, JOHN H.	Surgery	81
DOUGHERTY, JOHN W.	Medicine	58
DOUGLAS, R. GORDON	Obstetrics & Gynecology	64
DOYLE, THOMAS L., JR.	Psychiatry	75
DOZIER, DAVID F.	Medicine	61
DRAPER, JOHN W.	Surgery (Urology)	81
DREW, J. EDWIN	Surgery	81
DULEY, WADE	Surgery	82
DUNBAR, CHARLES R.	Surgery	81
DUNBAR, HOWARD S.	Surgery	82
DUNKELL, SAMUEL V.	Psychiatry	75
DUNLAP, EDWARD A.	Surgery (Ophthalmology)	81
DUNN, ALLEN R.	Surgery	83
DUNNING, HENRY S.	Medicine (Neurology)	57
DU VIGNEAUD, VINCENT	Biochemistry	56
DWORETZKY, MURRAY	Medicine	58
EANES, EDWARD D.	Surgery	81
ECKARDT, ROBERT E.	Medicine	61
ECKEL, JOHN H.	Surgery	81
ECKER, ROGER R.	Surgery	82
EDELMAN, MARTIN J.	Radiology	79
EDWARDS, DAYTON J.	Physiology (Emeritus)	6

EGAN, GEORGE F.	Surgery	81
EGGLESTON, CARY	Medicine (Emeritus)	6
EHLERS, KATHRYN H.	Pediatrics	70
EHRlich, RICHARD M.	Surgery	83
EHRREICH, STEWART J.	Pharmacology	72
EICHENHOLTZ, SIDNEY	Surgery	81
EILERS, ELIZABETH A.	Medicine	61
EISENMENGER, WILLIAM	Medicine	59
EJRUP, BORJE E. V.	Medicine	61
ENGEL, TIBOR	Obstetrics and Gynecology	65
ENGLE, MARY ALLEN	Pediatrics	69
ENGLE, RALPH L., JR.	Medicine	58
EPP, EDWARD R.	Sloan-Kettering (Biophysics)	97
EPSTEIN, NATHAN	Pediatrics	69
ERDMANN, ALBERT J., JR.	Medicine	59
ERLANDSON, MARION E.	Pediatrics	69
ERLANGER, HERBERT L.	Surgery	81
ERLE, HENRY R.	Medicine	59
ERTEL, NORMAN H.	Medicine	61
ERYOL, AZAK S.	Pathology	68
ESAKOF, ERNEST R.	Medicine	61
ESCHER, GEORGE C.	Medicine	59
ESKES, PHILIP W. H.	Pediatrics	70
ESKESSEN, RALPH A.	Medicine	61
ETTINGER, EDWIN	Medicine	61
EVANS, JOHN A.	Radiology	79
EYSTER, M. ELAINE	Medicine	61
FABRITIUS, RUTH E.	Surgery	82
FADDEN, FRANCIS J.	Surgery	82
FAHEY, THOMAS	Medicine	60
FALES, CATHERINE H.	Psychiatry	75
FARAGALLA, FAROUK F.	Psychiatry	75
FARR, HOLLON W.	Surgery	81
FARROW, JOSEPH H.	Surgery	83
FEAR, ROBERT	Obstetrics & Gynecology	65
FEDER, AARON	Medicine	58
FELDMANN, FLOYD M.	Public Health	77
FELL, COLIN	Physiology	73
FERGUSON, G. RENEE	Psychiatry	75
FERNANDES, MANUEL	Surgery	82
FERRARO, JOHN J.	Biochemistry	56
FERRIER, BARBARA M.	Biochemistry	56
FINKBEINER, JOHN A.	Medicine	59
FINKLE, THEODORE H.	Psychiatry	75
FINN, WILLIAM F.	Obstetrics & Gynecology	65
FIRSCHEIN, HILLIARD E.	Surgery	81
FISCHMAN, DONALD	Anatomy	54
FISHER, BERNARD	Psychiatry	75
FISHER, JOHN T.	Surgery	82
FISHER, ROBERT L.	Surgery	83
FLACH, FREDERIC F.	Psychiatry	74
FLEETWOOD, M. FREILE	Psychiatry	75
FLEISCHMANN, EDGAR P.	Surgery	82
FLEMING, IRVIN D.	Surgery	84
FLYNN, JAMES P.	Radiology	79
FLYNN, JOHN T.	Medicine	59
FLOURET, GEORGE	Biochemistry	56
FOCHT, ELIZABETH F.	Radiology (Physics)	79
FODOR, PAUL J.	Sloan-Kettering (Biochemistry)	96
FOGH, JORGEN E.	Sloan-Kettering (Pathology)	98
FOLEY, WILLIAM T.	Medicine	58
FOOTE, FRANK W. JR.,	Sloan-Kettering (Pathology)	98
FORDE, THOMAS P.	Medicine	61

FORKNER, CLAUDE E.	Medicine	57
FORKNER, CLAUDE, E., JR.	Medicine	61
FORTNER, JOSEPH	Surgery	83
FOUNTAIN, GERARD	Psychiatry	75
FOX, JACK J.	Sloan-Kettering (Biochemistry)	96
FRABLE, MARY ANN S.	Surgery	82
FRACCHIA, ALFRED A.	Surgery	84
FRANCIS, YVETTE F.	Pediatrics	70
FRANKEL, HERMAN N.	Pediatrics	71
FRANKLIN, JOHN E.	Pediatrics	69
FRASCINO, JOSEPH	Medicine	60
FRAZELL, EDGAR L.	Surgery	83
FREDERICK, WILLIAM C.	Surgery	82
FREEDMAN, WALTER	Obstetrics & Gynecology	65
FREIBERGER, ROBERT H.	Radiology	79
FREIMAN, ALVIN H.	Medicine	59
FREYBERG, RICHARD H.	Medicine	57
FREYDBERG, NICHOLAS	Psychiatry	75
FRIEDMAN, LIONEL O.	Psychiatry	75
FRIEND, CHARLOTTE	Sloan-Kettering (Biology)	96
FRIESS, CONSTANCE	Medicine	59
FRIMPTER, GEORGE W.	Medicine	59
FROST, ELIZABETH A. M.	Surgery	83
FUCHS, FRITZ	Obstetrics & Gynecology	64
FULCHER, THOMAS M.	Surgery	83
FULGRAFF, GEORGES	Physiology	73
FURTH, EUGENE D.	Medicine; Radiology	59; 79
GABEL, MILTON	Surgery	82
GALIN, MILES A.	Surgery	81
GANDINI, ENRICO	Pediatrics	70
GANDY, HORTENSE	Obstetrics & Gynecology	65
GARDNER, DAVID J.	Psychiatry	75
GARDNER, HORACE T.	Medicine	59
GARDY, MARTIN	Medicine	61
GAREEN, DIANE B.	Pediatrics	70
GAUSE, RALPH W.	Obstetrics & Gynecology	64
GEE, RUSSELL O.	Surgery	82
GEIGER, J. THEODORE	Surgery	82
GELFAND, MARTIN D.	Medicine	61
GELLER, WILLIAM	Medicine	58
GEMBA, TERUO J.	Medicine	61
GENVERT, HAROLD	Surgery	81
GEPFERT, RANDOLPH	Obstetrics & Gynecology	65
GERMAN, JAMES L. III	Medicine; Pediatrics	58; 69
GEROLD, FRANK R.	Surgery	84
GERSH, MARVIN J.	Pediatrics	70
GERSHON, MICHAEL D.	Anatomy	54
GIEBISCH, GERHARD	Physiology	73
GILDER, HELENA	Biochemistry; Surgery	56; 81
GILL, FRED A.	Medicine	61
GILLESSEN, DIETER	Biochemistry	56
GILLETTE, RONALD W.	Surgery	82
GILROY, FRANCIS J.	Medicine	61
GINSBURG, SELIG M.	Medicine	61
GITTLER, ROBERT D.	Medicine	61
GIVEN, WILLIAM P.	Obstetrics & Gynecology	65
GLADSTONE, WILMA	Obstetrics & Gynecology	65
GLASBERG, HERBERT M.	Psychiatry	75
GLASSMAN, OSCAR	Obstetrics & Gynecology	65
GLENN, FRANK	Surgery	80
GLOBUS, DAVID L.	Medicine	61
GLUCK, DAVID	Medicine	61
GLUCKSMAN, MYRON L.	Psychiatry	75

GLYNN, MARTIN J.	Pediatrics	70
GOKHALE, SHREEKANT V.	Medicine	61
GOLBEY, ROBERT B.	Medicine	59
GOLD, HARRY	Pharmacology	72
GOLDBERG, HENRY P.	Pediatrics	69
GOLDIN, HOWARD	Medicine	61
GOLDSMITH, EDWARD I.	Surgery	81
GOLDSMITH, HARRY S.	Surgery	84
GOLDSTEIN, GEORGE	Pediatrics	70
GOLDSTEIN, MICHAEL	Medicine	61
GOLDSTEIN, WILLIAM B.	Radiology	79
GOLUBOW, JULIUS	Biochemistry; Pediatrics	56; 70
GONG, JOSEPH K.	Surgery	82
GOODELL, HELEN	Medicine	61
GOODNER, JOHN T.	Surgery	84
GOODRICH, CHARLES H.	Medicine	59
GOODYEAR, STEPHEN	Psychiatry	75
GORDON, DAN M.	Surgery (Ophthalmology)	81
GORHAM, GEORGE W.	Medicine	59
GORHAM, L. WHITTINGTON	Pathology	68
GOSS, MARY E. W.	Medicine	59
GOTTA, ALEXANDER	Surgery	82
GOULET, ANITA H.	Surgery	84
GOULIAN, DICRAN, JR.	Surgery	81
GRABSTALD, HARRY	Surgery	83
GRAHAM, WILLIAM D.	Surgery	82
GRANN, VICTOR	Medicine	61
GREELEY, ARTHUR V.	Obstetrics & Gynecology	65
GREEN, SAUL	Sloan-Kettering (Biochemistry)	96
GREENBERG, ABBY J.	Pediatrics	70
GREENBERG, ERNEST	Medicine	59
GREENBERG, SIDNEY M.	Medicine	58
GREIF, ROGER L.	Physiology	73
GROESCHEL, AUGUST H.	Public Health	77
GROSS, JOEL M.	Medicine	61
GROSSI, MARGARET T.	Pediatrics	70
GROSSBERG, SIDNEY E.	Microbiology	64
GROSSMAN, JOSEPH	Medicine	61
GROSSMAN, SEYMOUR	Medicine	61
GRUBER, HOWARD S.	Pediatrics	71
GUIDA, PETER M.	Surgery	81
GUINEE, VINCENT	Medicine	61
GUION, CONNIE M.	Medicine (Emeritus)	6
GUTHRIE, KEITH O., JR.	Medicine	59
GUTHRIE, THOMAS C.	Medicine	59
HADLEY, SUSAN J.	Medicine	59
HAGAMEN, WILBUR D.	Anatomy	54
HAGOPIAN, MARTIN	Anatomy	54
HAGSTROM, JACK W. C.	Pathology	68
HALPERN, MORDECAI	Radiology	79
HALSEY, HUGH	Obstetrics & Gynecology	65
HALVORSON, EDITH P.	Pediatrics	71
HAMILTON, CHARLES K.	Surgery	82
HAMILTON, FRANCIS J.	Psychiatry	74
HAMILTON, LEONARD D.	Sloan-Kettering (Biology)	96
HAMILTON, MARY G.	Sloan-Kettering (Biochemistry)	96
HANLEY, MARSHALL J.	Medicine	61
HANLON, LAWRENCE W.	Associate Dean	4
HANSON, MAURY L.	Surgery	82
HARALAMBIE, JAMES Q.	Pediatrics	70
HARDING, JOHN S.	Psychiatry	75
HARDY, ROBERT E.	Obstetrics & Gynecology	65
HARPEL, PETER C.	Medicine	61

HARRAR, JAMES A.	Obstetrics & Gynecology	6
HARRINGTON, HELEN	Pediatrics (Emeritus)	6
HARRIS, LAURENCE S.	Surgery	83
HARROLD, CHARLES C., JR.	Surgery	84
HATTERER, LAWRENCE J.	Psychiatry	75
HAUSER, EDWIN T.	Medicine (Emeritus)	6
HAUSMAN, LOUIS	Medicine (Neurology) (Emeritus)	6
HAWKS, GRAHAM G.	Obstetrics & Gynecology (Emeritus)	6
HAYES, JOSEPH G.	Medicine	61
HAYES, ROSLYN	Psychiatry	76
HAYNES, JAMES M.	Medicine	61
HEILMAN, KENNETH M.	Medicine	61
HEIMOFF, LEONARD L.	Medicine	59
HEINZEN, BRUCE	Surgery	82
HELLER, JOHN R.	Public Health	77
HELPERN, HERMAN G.	Medicine	61
HELPERN, MILTON	Medicine; Pathology	59; 68
HEMPLING, HAROLD	Physiology	73
HENSCKE, ULRICH K.	Radiology	79
HERBERT, PHILIP S., JR.,	Psychiatry	75
HERNANDEZ, JUAN	Medicine	61
HERRMANN, RICHARD	Medicine	61
HERSH, ALEXANDER	Surgery	81
HERTZ, RALPH E. L.	Surgery	84
HIGINBOTHAM, NORMAN L.	Surgery	83
HILF, MORRIS M.	Surgery	83
HILGARTNER, MARGARET W.	Pediatrics	70
HINKLE, LAWRENCE E., JR.	Medicine; Psychiatry	58; 74
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HNAT, RICHARD	Obstetrics & Gynecology	65
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HOCHMAN, RAYMOND B.	Medicine	61
HOCHSTEIN, ELLIOT	Medicine	57
HOFFMAN, DEITRICH	Sloan-Kettering (Biochemistry)	96
HOLLEB, ARTHUR I.	Surgery	83
HOLLENBERG, MILTON	Medicine	59
HOLLERAN, BRENT J.	Surgery	83
HOLMAN, CRANSTON W.	Surgery	80
HOLMAN, JAMES M.	Surgery	81
HOLSWADE, GEORGE R.	Surgery	81
HOLTZ, HELENE	Medicine	61
HOOK, EDWARD W., JR.	Medicine	57
HORGER, EUGENE L.	Medicine	59
HOROWITZ, HERBERT I.	Medicine	59
HORSFALL, FRANK L.	Medicine; Sloan-Kettering (Biology)	57; 96
HORWICH, I. DAVID	Surgery	82
HORWITH, MELVIN	Medicine	58
HOSKINS, DONALD W.	Medicine; Public Health	61
HOTTA, S. STEVEN	Biochemistry	56
HOUDE, RAYMOND W.	Medicine	59
HOWE, SUZANNE A.	Surgery	82
HOWLAND, WILLIAM	Surgery	83
HUGO, NORMAN E.	Surgery	82
HULL, CHARLES E.	Medicine	61
HUMPHREYS, GUSTAVUS A.	Surgery (Urology)	81
HUNT, FREDERICK C.	Pediatrics	70
HURLEY, JAMES R.	Medicine	61
HUSTON, ANN	Surgery	82
HUSTU, H. OMAR	Radiology	79
HUTCHISON, DORRIS J.	Sloan-Kettering (Biology)	96
HUTTER, ROBERT V. P.	Sloan-Kettering (Pathology)	98
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ISAACS, MARIAN	Medicine	61
ISAACS, NORMAN J.	Medicine	61
ISAACSON, HAROLD S.	Medicine	61
JABLONER, JUDITH L.	Pediatrics	71
JACKSON, BENJAMIN A.	Pathology	68
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JACOBS, RITA G.	Surgery	84
JACOBSON, ABRAHAM S.	Medicine	59
JACOBSON, JERRY HART	Surgery	81
JAHIEL, RENE	Public Health	77
JANULIS, PETER T.	Psychiatry	75
JASLOWITZ, BERNARD	Medicine	61
JASPIN, GEORGE	Radiology	79
JEFFRIES, GRAHAM	Medicine	58
JERNIGAN, THOMAS P.	Medicine	61
JOHNSON, DONALD G.	Obstetrics & Gynecology	65
JOHNSON, JAMES	Obstetrics & Gynecology	65
JOHNSON, O. ADRIAN	Surgery	83
JOHNSON, VANSEL S.	Surgery	81
JOHNSON, WILLIAM D.	Pathology	68
JONES, THOMAS C.	Medicine	61
JOSEPHSON, BARRY M.	Medicine	61
JOY, VINCENT A.	Medicine	61
JOYNER, EDMUND N. III	Pediatrics	69
JUNKER, BARNETT J.	Surgery	82
KAHN, IVAN J.	Medicine	61
KAMINSKY, NEIL I.	Medicine	62
KAMMERER, WILLIAM H.	Medicine	58
KANE, FRANCIS D.	Psychiatry	75
KAPLAN, LAWRENCE I.	Medicine	61
KAPLAN, LOUIS	Sloan-Kettering (Biology)	97
KARA, ANNA	Medicine	59
KARL, RICHARD C.	Surgery	81
KARMASON, MARILYN G.	Psychiatry	75
KARNOFSKY, DAVID A.	Medicine	58
KAROLL, RICHARD P.	Surgery; Pathology	81; 68
KASS, AILEEN	Surgery	83
KATZ, J. HARRY	Medicine	59
KAUER, GEORGE L.	Medicine	58
KAUER, JOSEPH T.	Surgery	81
KAYE, DONALD	Medicine	59
KEAN, B. H.	Medicine	58
KEARNEY, WILLIAM F., JR.	Surgery	82
KEEFER, EDWARD B. C.	Surgery	81
KELLNER, AARON	Pathology	68
KELLY, DANIEL G.	Surgery	83
KELLY, LEMOYNE C.	Medicine	59
KEMP, HARVEY G., JR.	Medicine	60
KENNY, PETER J.	Sloan-Kettering (Biophysics)	97
KENT, ANN P.	Public Health	77
KERR, M. DOROTHEA	Psychiatry	75
KESSLER, RICHARD	Physiology	73
KESSLER, SUSAN	Medicine	61
KEUHNELIAN, JOHN G.	Surgery	82
KEUTMAN, HENRY T.	Medicine	62
KHONSARI, SIAVOSH	Surgery	83
KIDD, JOHN G.	Pathology	68
KILBOURNE, EDWIN D.	Public Health	77
KILLIP, THOMAS, III	Medicine	58
KILLORAN, PAUL J.	Radiology	79

KIM, YOUNG-SHIK	Medicine	60
KIMBALL, ANNE C.	Medicine	59
KIMBALL, JOHN	Medicine	60
KIRKHAM, FREDERIC T., JR.	Medicine	58
KIRKLAND, HENRY B.	Medicine	59
KLEBANOFF, SEYMOUR G.	Psychiatry	75
KLEIN, HARRY	Medicine	62
KLEIN, LUDWIG	Medicine	61
KLEIN, NEIL	Medicine	62
KLINGON, GERALD H.	Medicine	58
KNAPP, ROBERT C.	Obstetrics & Gynecology	65
KOHL, RICHARD N.	Psychiatry	74
KOIDE, SAMUEL S.	Medicine; Sloan-Kettering (Biochemistry)	59; 96
KOONTZ, WARREN W., JR.	Surgery	83
KORN, SAM	Psychiatry	75
KORNGOLD, LEONHARD	Surgery	81
KOSS, LEOPOLD G.	Sloan-Kettering (Pathology)	98
KOSSMAN, RICHARD J.	Medicine	61
KOTEEN, HERBERT	Medicine	59
KOVEN, BERNARD	Medicine	61
KRAKOFF, IRWIN	Medicine	59
KRAMER, ELMER E.	Obstetrics & Gynecology	65
KRAMER, MILTON L.	Medicine	57
KREEK, MARY JANE	Medicine	62
KREIS, WILLI	Sloan-Kettering (Biochemistry)	96
KREMER, CARL P., JR.	Pediatrics	70
KUGLER, MARGARET M.	Pediatrics	70
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KUPFER, SHERMAN	Physiology	73
KUTT, HENN	Medicine	59
LACY, GEORGE M.	Surgery	83
LADUE, JOHN S.	Medicine	58
LAMBREW, COSTAS T.	Medicine	59
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LANCE, EUGENE M.	Surgery	82
LANDAU, SAMUEL	Medicine	61
LANDESMAN, ROBERT	Obstetrics & Gynecology	65
LANDIS, BERNARD	Psychiatry	75
LANDOLT, ALLISON B.	Psychiatry	75
LANDWEHR, DOUGLAS M.	Physiology	73
LANGSTADT, JOHN R.	Obstetrics & Gynecology	65
LARSON, MARTHA	Medicine	61
LAUFER, LUDWIG G.	Psychiatry	75
LAUGHLIN, JOHN S.	Sloan-Kettering (Biophysics)	97
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LAWRENCE, JEROME	Surgery	82
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LEACH, CHARLES N., JR.	Medicine	62
LECKER, MORTIMER	Medicine	61
LEDER, HAROLD L.	Medicine	61
LEDWITH, JAMES W.	Medicine	61
LEE, BURTON J. III	Medicine	61
LEE, JOHN E.	Medicine	61
LEE, RICHARD E.	Medicine	59
LEE, SIN HANG	Pathology	68
LEEPER, ROBERT D.	Medicine	59
LEIGHTON, ALEXANDER H.	Psychiatry	74
LEIGHTON, DOROTHEA G.	Psychiatry	74
LESE, LEO R.	Medicine	61
LESWING, RICHARD J.	Medicine	61
LEVIN, SAMUEL J.	Sloan-Kettering (Biochemistry)	96

LEVINE, LENORE S.	Pediatrics	70
LEVINE, MILTON I.	Pediatrics	70
LEVINE, SAMUEL Z.	Pediatrics (Emeritus)	6
LEVITT, BARRIE	Pharmacology	72
LEVOVSKY, LOUIS	Medicine	62
LEVY, BRUCE C.	Medicine	61
LEWIS, ALFRED B., JR.	Psychiatry	75
LEWIS, CHARLES M.	Medicine	61
LEWIS, GEORGE M.	Medicine (Emeritus)	6
LEWIS, JOHN S.	Surgery	83
LEWIS, RALPH J.	Surgery	83
LEWISOHN, MARJORIE	Medicine	61
LEY, ALLYN B.	Medicine	57
LHAMON, WILLIAM T.	Psychiatry	74
LIANG, EDWARD	Psychiatry	75
LIEBERMAN, FERROLD S.	Medicine	59
LIEBER, CHARLES	Medicine	58
LIEBOLT, FREDERICK L.	Surgery (Orthopedics)	81
LIM, SHEILA	Pathology	68
LIM, WAN N.	Pediatrics	70
LINCOFF, HARVEY A.	Surgery	81
LINCOLN, ASA L.	Medicine (Emeritus)	6
LINTZ, ROBERT M.	Medicine	58
LIPKIN, MACK	Medicine	58
LIPKIN, MARTIN	Medicine	58
LIPTON, ALLAN	Medicine	62
LITTELL, ANDREW H.	Pathology	68
LIVINGSTON, ROBERT	Obstetrics & Gynecology	65
LOCKSHIN, MICHAEL D.	Medicine	62
LOEHR, WALTER J.	Surgery	83
LOERY, WILLIAM	Public Health	77
LONGAKER, ALICE L.	Psychiatry	75
LORING, MARVIN	Radiology	79
LOSEKE, LUCILE	Surgery	83
LOURIA, DONALD B.	Medicine	58
LO VERME, JOHN	Medicine	61
LOWE, LUTHER B., JR.	Pediatrics	71
LUBASH, GLENN D.	Medicine	59
LUCAS, JOHN C., JR.	Surgery	84
LUCKEY, E. HUGH	Medicine	57
LUGER, NORTON M.	Medicine	59
LUKAS, DANIEL S.	Medicine	58
LULOW, WILLIAM V.	Psychiatry	75
LUND, MELVIN	Surgery	83
LUPARELLO, THOMAS J.	Psychiatry	75
LYMAN, MARGARET S.	Pediatrics	70
MacDONALD, CARLTON	Medicine	60
MacFEE, WILLIAM F.	Surgery (Emeritus)	6
MACFARLANE, J. RALPH	Surgery	83
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MacLEOD, JOHN	Anatomy	54
MAGGIO, LOUIS J.	Surgery	82
MAGIDA, MELVILLE G.	Medicine; Pediatrics	59; 71
MAHOWALD, THEODORE A.	Biochemistry	56
MAMELOK, ALFRED E.	Surgery	82
MANN, EDWARD C.	Obstetrics & Gynecology	65
MANNIX, HENRY, JR.	Surgery	82
MARBURY, BENJAMIN E.	Surgery; Obstetrics & Gynecology	81; 65
MARCHAND, JOHN F.	Medicine	61
MARCHISELLO, PETER J.	Surgery	82
MARCIANO, MARK R.	Medicine	61

MARCOVE, RALPH C.	Surgery	84
MARCUS, AARON J.	Medicine	59
MARCUS, CYRIL	Obstetrics & Gynecology	65
MARCUS, STEWART	Obstetrics & Gynecology	65
MARKHAM, MARY H.	Surgery	82
MARSHAM, SANFORD	Obstetrics & Gynecology	65
MARQUIS, JAMES R.	Radiology	79
MARSHALL, FLORENCE N.	Pediatrics	70
MARSHALL, VICTOR F.	Surgery (Urology)	80
MARTENS, FREDERICK W.	Obstetrics & Gynecology	65
MARTIN, ROBERT S.	Medicine	60
MARTINEZ, JOSE R.	Physiology	73
MASCIA, ARMOND V.	Pediatrics	70
MASON, JOSEPH B.	Surgery	82
MASTERSON, JAMES F., JR.	Psychiatry	75
MASTROVITO, RENE C.	Psychiatry	75
MASUDA, HIDEO LUCKE	Surgery	83
MAUTALEN, CARLOS A.	Medicine	61
MAYER, KLAUS	Medicine	59
MAYER, VICTOR	Surgery	82
MAZUR, ABRAHAM	Medicine	59
MCCARROLL, JAMES R.	Public Health	77
MCCLEARY, PAUL	Obstetrics & Gynecology	65
MCCOMBS, A. PARKS	Medicine	59
MCCORMACK, RICHARD R.	Medicine	59
MCCRACKEN, GEORGE H., JR.	Pediatrics	71
MCCRORY, WALLACE W.	Pediatrics	69
MCCULLY, ROBERT S.	Psychiatry	75
MCCUNE, ROBERT M., JR.	Public Health	77
MCDERMOTT, WALSH	Public Health	77
MCDVITT, ELLEN	Medicine	58
MCDONOUGH, EUGENE F., JR.	Surgery	84
MCDOWELL, FLETCHER H.	Medicine	58
MCGOVERN, J. BRUCE	Surgery	83
MCGOVERN, JAMES	Medicine	59
MCGOVERN, JOHN H.	Surgery	81
MCGOVERN, ROBERT G.	Pediatrics	70
MCGOWAN, LILLIAN E.	Psychiatry	75
MCCRATH, JOHN F.	Psychiatry	75
MCCRATH, NEVA EILEEN	Medicine	61
McILVEEN, MARION	Pediatrics	70
McKABA, DONALD G.	Medicine	62
McKNIGHT, WILLIAM K.	Psychiatry	75
McLANE, CHARLES M.	Obstetrics & Gynecology	64
McLEAN, JOHN M.	Surgery (Ophthalmology)	80
McLELLAN, FREDERICK C.	Surgery (Urology)	82
McLEMORE, GEORGE A., JR.	Medicine	59
McNAMARA, HELEN	Pediatrics	70
McNEER, GORDON	Surgery	83
McPEAK, CHARLES J.	Surgery	84
McPHERSON, G. DUNCAN	Surgery	82
McSHANE, RICHARD H.	Surgery	83
McSHERRY, CHARLES K.	Surgery	82
MEAD, ALLEN W.	Medicine	61
MEIKLE, THOMAS H., JR.	Anatomy	54
MELAMED, MYRON R.	Sloan-Kettering (Pathology)	98
MELCHIONNA, ROBERT H.	Medicine	58
MELLORS, ROBERT C.	Pathology	68
MELNICK, ROBERT E.	Obstetrics & Gynecology	65
MEYER, JOHN P.	Medicine	61
MICHAEL, STANLEY T.	Psychiatry	75
MICHAELS, RHODA M.	Medicine	61

MIDDLETON, RICHARD	Surgery	83
MILHORAT, ADE T.	Medicine (Emeritus)	6
MILES, CHARLES P.	Sloan-Kettering (Pathology)	98
MILLER, ANN H.	Surgery	84
MILLER, DANIEL G.	Medicine	59
MILLER, THEODORE R.	Surgery	83
MILLER, RICHARD W.	Medicine	62
MILLSTEIN, GERALD J.	Surgery	82
MINICK, C. RICHARD	Pathology	68
MISCALL, LAURENCE	Surgery	82
MITCHELL, PAUL	Medicine	62
MITTY, VIRGINIA C.	Pediatrics	70
MIZRACHI, MATILDE	Medicine	61
MOCCIA, JOSEPH	Surgery	83
MODABER, PARVANEH	Surgery	83
MODELL, WALTER	Pharmacology	72
MOLANDER, DAVID W.	Medicine	61
MONAHAN, GEORGE R.	Surgery	82
MONEY, WILLIAM L.	Sloan-Kettering (Biology)	96
MONGEAU, JEAN-GUY	Pediatrics	71
MOORE, ALICE E.	Sloan-Kettering (Biology)	96
MOORE, HOLLAND V.	Surgery	83
MOORE, JAMES A.	Surgery (Otolaryngology)	80
MOORE, OLIVER S.	Surgery	84
MOORE, S. W.	Surgery	80
MORGENTHAU, JOAN E.	Pediatrics	70
MORIBER, LLOYD A.	Surgery	83
MORRILL, CHARLES V.	Anatomy (Emeritus)	6
MORRISON, MYLES, G., JR.	Obstetrics & Gynecology	65
MOROSON, HAROLD	Sloan-Kettering (Biophysics)	97
MUECKE, EDWARD D.	Surgery	82
MUELLER, GEORGE C.	Surgery	82
MUJAHED, ZUHEIR	Radiology	79
MUNIGLO, JO ANNE	Anatomy	54
MUNROE, WILLIAM G. C.	Medicine	62
MURPHY, GEORGE E.	Pathology	68
MURPHY, JANE M.	Psychiatry	75
MURPHY, M. LOIS	Pediatrics	70
MURPHY, RICHARD	Obstetrics & Gynecology	65
MURPHY, WILLIS A.	Medicine	61
MUSCHENHEIM, CARL	Medicine	57
MYERS, W. P. LAIRD	Medicine	58
MYERS, WAYNE A.	Psychiatry	75
NACHMAN, RALPH L.	Medicine	60
NAGEL, THEODORE C.	Medicine	62
NAJAC, HAROLD W.	Surgery	00
NAGLER, WILLIBALD	Medicine	61
NAKAMOTO, MASAO	Obstetrics & Gynecology	65
NATHANSON, BERNARD	Obstetrics & Gynecology	65
NATHANSON, JOSEPH N.	Obstetrics & Gynecology	64
NEGRIN, JUAN	Surgery	82
NEILL, JAMES M.	Microbiology & Immunology (Emeritus)	6
NELSON, WILLIAM J.	Surgery	82
NEUMANN, KARL	Pediatrics	70
NEW, MARIA I.	Pediatrics	70
NICHOLAS, JAMES A.	Surgery	82
NICKEL, WILLIAM F., JR.	Surgery	81
NICKSON, JAMES J.	Radiology	79
NILSSON, BO E. R.	Surgery	82
NISSSELBAUM, JEROME S.	Sloan-Kettering (Biochemistry)	96
NORSA, LUIGIA	Medicine	61
NOTTERMAN, REBECCA F.	Pediatrics	70
NOYES, WILBUR F.	Sloan-Kettering (Biology)	96

NUNEZ, ELADIO A.	Medicine	61
NYDICK, IRWIN	Medicine	60
NYDICK, MARTIN	Medicine	60
O'BRIEN, PAUL H.	Surgery	84
O'CONNELL, DANIEL J.	Psychiatry	75
O'DONNELL, ELSA, H. J.	Anatomy	54
OGILVIE, JOHN B.	Surgery	82
OKAMOTO, MICHIKO	Pharmacology	72
OKINAKA, ARTHUR J.	Surgery	82
OKUDA, MINORU	Pathology	68
OLCOTT, CHARLES T.	Pathology (Emeritus)	6
O'LEARY, WILLIAM M.	Microbiology	64
OLD, LLOYD	Sloan-Kettering (Biology)	96
OLIVIER, NORMAND E.	Medicine	62
OLLSTEIN, PHILIP	Pub. Health	77
OLSSON, STEN-ERIK	Surgery	80
O'NEIL, PATRICIA M.	Surgery	82
O'NEIL, EARL A.	Surgery	82
OPIE, EUGENE L.	Pathology (Emeritus)	6
OPPEL, THEODORE W.	Medicine	58
ORME, S. KIRBY	Surgery	83
PACHTER, MAURICE	Psychiatry	75
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Associate Professors	159
Assistant Professors	297
Instructors, Assistants, etc.	702
Total	1227

SUMMARY OF SLOAN-KETTERING DIVISION STAFF

Full Professors	12
Associate Professors	18
Assistant Professors	21
Instructors, Assistants, etc.	14
Total	65

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